

**Before the
COMMUNICATIONS COMMISSION
Washington, D.C.**

In the Matter of

Berks County, Department of Emergency Services)
)
Request for Waiver of the January 1, 2013)
narrowbanding deadline)
)

To: Chief, Public Safety and Homeland Security Bureau

Request for Waiver

Pursuant to Section 1.925 of the Federal Communications Commission's (the "Commission") rules, the Berks County, PA Department of Emergency Services (the "County") hereby submits a request for waiver of the January 1, 2013 narrowbanding deadline. The County is in the process of implementing a new P25 digital trunked public safety radio system in the 700 MHz frequency band, which will be utilized by all emergency response agencies within Berks County. By way of background, the County's new P25 digital trunked public safety radio system will replace the existing 800 MHz trunking system and numerous conventional wideband analog VHF and UHF stations currently in use by the County to dispatch and communicate with public safety agencies within Berks County.

The County has already entered into contracts for the design and installation of this public safety radio system with Motorola Solutions, Inc. (“Motorola”) and Pyramid Network Services, LLC (“Pyramid”). In addition, the County currently is in the process of acquiring public safety radio tower sites and obtaining the applicable approvals to construct and use these public safety radio tower sites for its public safety radio system. The system infrastructure has been ordered from Motorola, but the expected factory shipment date is not expected to be accomplished until May 2012.

The existing project schedule targets a migration to the 700 MHz system prior to January 1, 2013. However, given several recent developments, the County is in the process of working with Motorola and Pyramid to develop a revised project schedule, which will have a significant impact on the date of Final System Acceptance for the County's new P25 digital trunked public safety radio system. Specifically, the County anticipates that the new project schedule will include a mid-2013 date for migration to the 700 MHz system due to the need for the County to conduct coverage testing in the Spring through Fall time frame with leaves on trees. A draft of the revised project schedule is included as Appendix D; however, this revised project schedule remains subject to additional revision as this project schedule is currently being negotiated between the County, Motorola and Pyramid.

In addition to the recent developments that have caused the contemplated Final System Acceptance date in the project schedule to be delayed beyond January 1, 2013, there are many other variables that have a

high probability of further impacting the project schedule, which could further delay the cutover date for the new 700 MHz system. These factors include, among other items, the following:

1. Motorola recently advised the County that factory staging for the new 700 MHz system has been delayed by several months from the previously anticipated date for completion of factory staging as included in the latest agreed upon project schedule. As a result of this delay, Motorola now anticipates that factory staging will not be completed until the end of May, 2012. Currently, Motorola does not anticipate that it will need to further delay the completion of factory staging; however, this delay in factory staging will likely preclude the County from having the system ready for coverage testing prior to Winter (and the existence of leaf-off conditions). Hence, it will likely be necessary for coverage testing on the new 700 MHz system to be performed in the Spring of 2013. Therefore, this factory staging delay has impacted in a significant negative manner the County's ability to achieve Final System Acceptance and cutover for the new 700 MHz system by the January 1, 2013 narrowbanding deadline.
2. Motorola also recently advised the County that its engineering group needed to perform various re-work relating to the VHF design for the proposed new public safety radio system since Motorola discovered an oversight in its original VHF design for the proposed new public safety radio system. Motorola is currently evaluating the options for the VHF re-design and the County is proactively working with Motorola in order to achieve a successful resolution to addressing this Motorola oversight. The County is hopeful that it will be able to reach a definitive solution and a new VHF design to avoid the significant loss of radio coverage for emergency personnel, which would have resulted from the Motorola engineering oversight.
3. The County has finalized the majority of leases and easement agreements that are necessary for the proposed public safety radio tower sites. However, the County currently is in the process of: (i) negotiating four (4) leases with landowners/third party tower owners; and (ii) negotiating several easement agreements in order to obtain the necessary access to the proposed public safety radio tower sites. To date, in two (2) instances, negotiations relating to various access easement agreements have reached an impasse and the County has initiated eminent domain proceedings.

If additional site acquisition efforts arrive at an impasse in connection with any of the four (4) outstanding lease agreements or the other outstanding access easement agreement negotiations, the County intends to exercise its eminent domain authority. However, if the County needs to pursue additional eminent domain proceedings, the site acquisition processes would likely further delay the project schedule and the anticipated mid-2013 deadline for cutover to the new 700 MHz system.

4. Many of the public safety radio tower sites are still in the zoning and land development approval process. The County is seeking to finalize the zoning and land development approval process as soon as possible; however, the County does not have control over various third party authorities with jurisdiction over the zoning and land development approval process for the proposed public safety radio tower sites.

Specifically, the County is seeking to obtain zoning approvals at the proposed public safety radio tower sites and the County is seeking to obtain waivers of the land development process for many of the proposed public safety radio tower sites. However, based upon recent developments: (i) the County does not anticipate receiving all local zoning approvals within the time frames necessary to meet the January 1, 2013 narrowbanding deadline; and/or (ii) the County has been required to proceed through a land development process at several tower sites. The need for the County to proceed through the land development process has caused a delay in the project schedule due to the fact that the existing project schedule was based upon the assumption that local municipalities would grant the County a waiver of the land development process.

5. In November, 2011, the County initiated the NEPA/SHPO process for the proposed public safety radio tower sites. However, to date, the NEPA/SHPO process has taken (and continues to take) considerably longer than anticipated, in part, due to the opposition of various environmentalist groups (e.g., National Park Service, Appalachian Trail Conservancy, Pennsylvania Audubon Society, etc.) to three (3) of the proposed public safety radio tower sites.

To date, the County has received NEPA/SHPO approvals for many of the proposed public safety radio tower sites. The County continues to diligently pursue obtaining all of the NEPA/SHPO approvals for the proposed public safety radio tower sites; however, the County does not have control over various third party authorities with jurisdiction over the NEPA/SHPO approval process. The NEPA/SHPO process will likely further delay the project schedule significantly (e.g., by adding, at a minimum, nine months to a year to the project schedule) even though the NEPA/SHPO approval process is only anticipated to be significantly extended at one or two public safety radio tower sites.

For example, the County will need a significant amount of additional time beyond the January 1, 2013 FCC narrowbanding deadline or the currently contemplated mid-2013 date for cutover to the new 700 MHz system due to the fact that the County will likely be required to: (i) prepare an Environmental Assessment (“EA”) for two (2) of the proposed public safety radio tower sites; and (ii) proceed through a Memorandum of Agreement (“MOA”) process with consulting parties in order to obtain the NEPA/SHPO approvals for two (2) of the proposed public safety radio tower sites. Specifically, the County will likely be required to prepare an EA and to proceed through an MOA process at two (2) of the proposed public safety radio tower sites due to the opposition of various environmentalist groups (e.g., National Park Service, Appalachian Trail Conservancy, Pennsylvania Audubon Society, etc.) to the proposed public safety radio tower sites to be located at the Albany and Bethel locations.

Furthermore, if the new 700 MHz system could only be partially built out by January 1, 2013 due to delays in Motorola’s staging process, Motorola’s VHF re-design, site acquisition, zoning, permitting, etc., it would be necessary to continue to operate the current VHF and UHF frequencies to accommodate the approximately 5000 public safety and local government end users. Given recent developments and the currently contemplated mid-2013 date for migration to the 700 MHz system, the County feels it to be prudent at this time to file this request for a narrowbanding waiver. Since the Commission recommends filing waivers early to “beat the last-minute rush” we are requesting a waiver until December 31, 2013 to

allow for delays which have recently occurred on the project as well as several additional months of time for future delays likely to be encountered in connection with the Motorola staging process, Motorola VHF re-design, site acquisition, zoning, permitting, etc. process.

The information provided in this waiver request pertains to all County public safety agencies within Berks County that plan to migrate to the planned 700 MHz trunking system. A list of the applicable Berks County call signs for which this waiver would be applicable has been provided in Appendix A.

In DA 11-1189, released on July 13, 2011, the Commission provided guidance to licensees for the filing of waivers of the narrowbanding deadline. The Commission cited the requirements of FCC rules section 1.925¹ which states that waivers must demonstrate that “(i) the underlying purpose of the rule(s) would not be served or would be frustrated by application to the instant case, and that a grant of the waiver would be in the public interest; or (ii) in view of unique or unusual factual circumstances of the instant case, application of the rule(s) would be inequitable, unduly burdensome or contrary to the public interest, or the applicant has no reasonable alternative.” Relative to the requirements of FCC rules section 1.925, the Commission recommended the following content for waiver requests:

- Steps already taken to plan for, initiate, and complete the transition to narrowband operations
- System size and complexity
- Whether system equipment is narrowband-capable or must be replaced or upgraded
- Whether the licensee plans additional system upgrades or improvements in addition to converting to narrowband operation
- Funding sources, including whether the licensee’s budget requires government approval or a multi-year budget process
- Whether the licensee’s narrowbanding schedule is affected by neighboring systems due to interoperability relationship or other interdependencies
- Plans to minimize the negative impact of extended wideband operations on co-channel and adjacent channel operations, including a description of the spectrum environment in the affected area
- If the licensee plans to migrate to a non-VHF/UHF band (e.g., 700 MHz or 800 MHz), whether it will relinquish VHF/UHF spectrum once it has migrated and the amount of spectrum to be relinquished

Further, the Commission has requested the following:

- What steps in the process have been or will be taken prior to January 1, 2013
- Anticipated dates of commencement and completion of:
 - Replacement or retuning of mobiles/portables
 - Infrastructure replacement or returning

The County has supplied applicable criteria for each of the above listed FCC recommendations for waiver content.

¹ 47.C.F.R §§ 1.925(b)(3)

Steps already taken to plan for, initiate, and complete the transition to narrowband operations

The County is well aware of the FCC requirements for licensees to migrate to narrowband operations. One of the driving factors behind the planned 700 MHz system is to satisfy narrowbanding requirements by permitting agencies to migrate off of legacy VHF and UHF spectrum. The County initially contracted with a consulting company to determine the best approach for satisfying the narrowbanding deadline. The results of that study determined that a new 700 MHz trunking system was the ideal technology to both satisfy the narrowbanding deadline and correct critical system deficiencies including coverage, capacity, and interoperability.

The County has since contracted with Motorola and Pyramid for the design and installation of the County's new P25 digital trunked public safety radio system. At this time the system design has been finalized pending site acquisition, and orders have been placed with Motorola for the system infrastructure.

Tower and site equipment procurement is underway. The law firm of Fox Rothschild LLP has been retained to assist with and manage the leasing, zoning, land development and permitting processes.

The County has received approval from the Region 28 Regional Planning Committee for the CAPRAD designated 700 MHz spectrum assigned to the County.

Pursuant to FCC rules section 1.925, the County has no other narrowbanding alternative than to proceed with the plans currently in place. Insufficient time exists to properly plan and execute an alternative approach that would satisfy the January 1, 2013 deadline. Such an approach would require additional funding and resources, which are not available in light of the present commitment to build out a 700 MHz trunked system. Any alternate approach would likely involve the ongoing use of conventional and simplex VHF and UHF equipment, which would not address critical communications deficiencies presently experienced within the County of Berks. Therefore, an alternate approach would be inequitable, unduly burdensome, and contrary to the public interest.

System size and complexity

The County is comprised of roughly 859 square miles of land and 7 square miles of water. The County's population is approximately 411,442. The County includes one city, 30 boroughs and 44 townships.

The legacy systems currently in place within Berks County are comprised of over 160 conventional VHF low band, VHF high band, and UHF simplex and repeater stations.

The proposed system will be a countywide simulcast trunked system utilizing twenty (20) tower sites. The system is designed to provide countywide portable hip-level coverage across a minimum of 95% of the county outdoors. Additionally, there are designated areas of 12 and 20 dB coverage to assure public safety users in building coverage. The system will operate on the P25 Phase II standard utilizing TDMA. The system as proposed by Motorola will utilize 28 frequencies split between two simulcast zones. The system will support up to 6,380 subscriber radios within the first year of operation.

It was determined that a countywide trunked simulcast P25 system was the only technology available that would adequately address the communications deficiencies experienced on the present conventional systems. Pursuant to FCC rules section 1.925, failure to build out the trunked system in lieu of another narrowbanding approach will be contrary to the public interest.

Whether system equipment is narrowband-capable or must be replaced or upgraded

The legacy VHF and UHF subscriber equipment and fixed infrastructure in use within the county is comprised of a wide mix of equipment that is both not narrowbanding capable and equipment that can be upgraded to narrowband operation. However, none of this legacy equipment is capable of operating in the 700 MHz band.

The City of Reading operates a single-site 800 MHz trunked system that utilizes subscriber radios that are P25 Phase I capable and can operate in the 700 MHz mode. However, these radios are not P25 Phase II capable and must therefore be replaced.

Therefore, all subscriber equipment and fixed infrastructure currently in use within the county will be replaced when the 700 MHz system is implemented.

VHF and UHF systems which are currently licensed to the County for Fire/EMS paging and alerting, Emergency Management, and interoperability, and are not being replaced by the 700 MHz system will be narrowbanded as part of the overall 700 MHz upgrade project. The current schedule calls for those systems to have the narrowbanding process completed by January 1, 2013. However, these systems will be cut-over to narrowband operation during the system transition and are subject to the potential for delays beyond January 1, 2013 as outlined in this document. Those systems are shown on Appendix C as spectrum and licenses which will not be relinquished, but retained by the County.

Whether the licensee plans additional system upgrades or improvements in addition to converting to narrowband operation

The County's narrowband migration will consist of the implementation of an entirely new 700 MHz P25 Phase II simulcast trunked system. The currently used VHF and UHF spectrum, with the exceptions shown in Appendix C, will be abandoned and, where not reused in a narrowband form, licenses will be returned to the FCC.

The proposed 700 MHz system will address critical deficiencies currently experienced on the present 800 MHz, VHF and UHF conventional systems.

Several VHF and UHF components of the legacy conventional systems will be maintained for paging/alerting, Emergency Management and interoperability purposes. These stations will be upgraded with narrowbanding compliant equipment as a component of the 700 MHz project.

The system replacement is necessary to provide first responders with an effective and reliable communications system. Failure to provide the system in lieu of another narrowbanding alternative will be contrary to the public interest.

Funding sources, including whether the licensee's budget requires government approval or a multi-year budget process

The planned 700 MHz P25 trunking system has been fully funded. The budget for the planned system was approved by the County Commissioners in November 2010 when the contract was signed with Motorola. The contracted price of the system is \$32,895,352. The budget for tower/site construction was approved by the County Commissioners in August 2011 when the contract was signed with Pyramid. The contracted price for tower/site construction is \$11,600,000. As evidence of the County's funding commitment, signed contract pages from the Motorola and Pyramid contracts have been provided in Appendix B.

In light of the County's funding commitment to build out a countywide 700 MHz trunked system, insufficient additional funding sources exist for the County to pursue an alternate approach that would assure compliance with the January 1, 2013 deadline. Such an approach would be inequitable, unduly burdensome or contrary to the public interest.

Whether the licensee's narrowbanding schedule is affected by neighboring systems due to interoperability relationship or other interdependencies

The County's narrowbanding schedule is minimally affected by neighboring systems. Most neighboring systems currently operate in the 800 MHz frequency band, and those have no bearing on the County's narrowbanding migration. For those neighboring jurisdictions that do utilize VHF and UHF radio systems, the County will rely upon specific narrowband channels that will be utilized for interoperability purposes. Gateway systems will be used where applicable to minimize any degradation experienced by cross communication between wideband and narrowband programmed radios. The County is actively communicating with interoperability partners to assure that interoperability is maintained throughout the narrowbanding transition and following the County's migration to 700 MHz.

Plans to minimize the negative impact of extended wideband operations on co-channel and adjacent channel operations, including a description of the spectrum environment in the affected area

Most neighboring jurisdictions operate 800 MHz trunking systems, and will thus not be impacted by the extended wideband operations within Berks County. For those neighboring agencies that will continue to operate VHF and UHF systems, co-channel interference problems are not expected to increase because of the transition to narrowband operations. Anticipated interference problems would likely be adjacent channel in nature.

The 7.5 kHz-offset adjacent channels in the VHF band have been available for quite some time, but have been treated by frequency coordinators as co-channel to adjacent wideband operations. Due to this treatment, no additional interference is anticipated from existing licensed stations. Potential interference from existing stations is anticipated to decrease as neighboring jurisdictions narrowband their equipment. Interference resulting from the extended use of wideband channels is only expected by new licensees operating in closer proximities than those distances currently permitted by frequency coordinators. The County will address these interference issues on a case-by-case basis, and will take all reasonable steps

necessary to remedy the interference. These steps will include adjusting antenna patterns, reducing base station ERP, reducing mobile ERP, narrowbanding specific channels if the level of effort is manageable, or ceasing operation altogether.

The overall length of time the County will operate on wideband channels beyond January 1, 2013 is anticipated to be no longer than 12 months. Based on typical licensing times for new stations and typical system build-out periods of one year, the amount of time that any interference issues could be expected will be minimal.

If the licensee plans to migrate to a non-VHF/UHF band (e.g., 700 MHz or 800 MHz), whether it will relinquish VHF/UHF spectrum once it has migrated and the amount of spectrum to be relinquished

Due to a lack of available alerting devices (pagers) able to operate in the 700 MHz band, the County plans to migrate operational and tactical communications to the 700 MHz frequency band, but not dispatching. Once the 700 MHz system has been accepted and cutover completed, the County envisions that most VHF and UHF equipment will be decommissioned and the corresponding spectrum will be relinquished. A select number of VHF channels will be retained by the County for interoperability, Emergency Management, and Paging/Alerting purposes. While the County envisions that most VHF and UHF spectrum will be relinquished following system cutover, the County wishes to maintain maximum flexibility with frequency assignments during the system cutover. A list of the applicable call signs and frequencies held by the County that may be relinquished if not reused following cutover to the 700 MHz system has been provided in Appendix C. These frequencies have been marked as “TBD” indicating that the County will likely relinquish these channels following system cutover, but reserves the right to utilize these channels for interoperability, Emergency Management, and Paging/Alerting purposes if necessary.

Narrowbanding Timetable

The County and Motorola during the Customer Design Review process developed a detailed project schedule outlining the step-by-step implementation schedule. However, given several recent developments, the County is the process of working with Motorola and Pyramid to develop a revised project implementation schedule, which will have a significant impact on the date of Final System Acceptance for the County’s new P25 digital trunked public safety radio system. A draft of the revised project schedule that has been presented by the County to Motorola and Pyramid is included as Appendix D; however, this revised project schedule remains subject to additional review and comment by Motorola and Pyramid.

Pursuant to DA 11-1189, the following key dates (from the revised project schedule included in Appendix D) have been provided:

<u>Milestone</u>	<u>Completion Date</u>
System Design Finalized (Except with respect to Motorola’s current VHF re-design efforts)	9/30/2011

Equipment Ordered	10/14/2011
Equipment Staging Completed and Ready to Ship to Berks County	6/1/2012
Tower Sites Ready for Infrastructure Installation	9/6/2012
Fixed Infrastructure Installed	11/21/2012
System Testing Completed	3/8/2013
Subscriber Units Deployed	3/8/2013
System Cutover Completed	4/5/2013
Anticipated Final System Acceptance	5/21/2013
Requested Date For Extension of FCC Narrowbanding Deadline	12/31/2013

Authority to Grant the Requested Waiver

Section 1.925(b)(3) allows the Commission to grant waivers if the underlying purpose of the rule would not be served or would be frustrated by application of the rule in the instant case and/or in view of the unique circumstances, the application of the rule would be inequitable, unduly burdensome, or contrary to the public interest.²

The narrowbanding deadline was established as a means to mandate land mobile radio users to implement spectrally efficient technologies so that newly created channels could be effectively utilized. The County is currently implementing the most spectrally efficient technology available, in a P25 Phase II trunked simulcast TDMA system. The system, as proposed, will utilize 28 repeater frequencies compared to the over 50 stations currently in use within the county. Mandating the County to adhere to the January 1, 2013 will require the County to abandon the planned 700 MHz trunking system and develop an alternate strategy to renew legacy VHF and UHF systems. This requirement would be contrary to the underlying purpose of the rule as the County would be forced to abandon a spectrally efficient design for a spectrally inefficient legacy system design.

The County has committed extensive time and resources into the current plan to build out a trunked 700 MHz system. The technology was identified as the optimum solution to address the critical deficiencies identified within the present communications systems. Should the system not be constructed as planned, first responders will be forced to continue to utilize communications systems that provide inadequate coverage, capacity, and interoperability. Based on the resources committed to the present project, it is not likely that an alternate narrowbanding approach could be developed that would satisfy the January 1,


² 47.C.F.R §§ 1.925(b)(3)

2013 deadline. Therefore, application of the rule would be inequitable, unduly burdensome, and contrary to the public interest. In the instant case, the County has no other reasonable alternative than to proceed with the presently planned 700 MHz system.

Conclusion

The County has shown that granting of the requested relief would be in the public interest and would promote safety of life and property. The requested relief falls squarely under the provisions of Section 1.925(b)(3) of the Commission's rules. The Commission has the ability to grant this application and significantly improve the communications capabilities for the first responders within Berks County. The County requests that the Commission find this request in the public interest and grant the application, as submitted.

Respectfully submitted,



Brian A. Gottschall, Director
Berks County Department of Emergency Services

Appendix A – FCC Call Signs Applicable to Waiver

<u>Call Sign</u>	<u>Licensee</u>
KB36804	Berks County Department of Emergency Services
KB36904	Berks County Department of Emergency Services
KD29640	Berks County Department of Emergency Services
KKC815	Berks County Department of Emergency Services
KNCB871	Berks County Department of Emergency Services
KNDS855	Berks County Department of Emergency Services
KNGZ321	Berks County Department of Emergency Services
KNHD996	Berks County Department of Emergency Services
KZT517	Berks County Department of Emergency Services
WNCB939	Berks County Department of Emergency Services
WNMU915	Berks County Department of Emergency Services
WPCP892	Berks County Department of Emergency Services
WPRW622	Berks County Department of Emergency Services
WQGC763	Berks County Department of Emergency Services
WQGF938	Berks County Department of Emergency Services
WNWP519	Berks County Department of Emergency Services
WPBW981	Berks County Department of Emergency Services
WPCZ969	Berks County Department of Emergency Services
WPGZ234	Berks County Department of Emergency Services
WPHP691	Berks County Department of Emergency Services
WPIE610	Berks County Department of Emergency Services
WQGH982	Berks County Department of Emergency Services


Appendix B – Proof of Funding

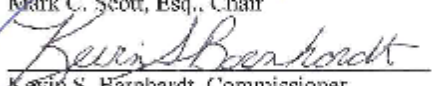
RESOLUTION NO. 345-10

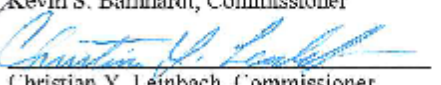
BE IT RESOLVED AND IT IS HEREBY RESOLVED that the Berks County Board of Commissioners hereby authorizes execution of a Communications System Agreement between the County of Berks and Motorola, Inc. subject to final negotiation and approval of all terms and conditions of said agreement by the County Solicitor and Fox Rothschild LLP.

ADOPTED THIS 18th DAY OF NOVEMBER, 2010.

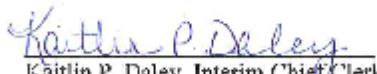
COUNTY OF BERKS


Mark C. Scott, Esq., Chair


Kevin S. Barnhardt, Commissioner


Christian Y. Leinbach, Commissioner

Attest:



Kaitlin P. Daley, Interim Chief Clerk

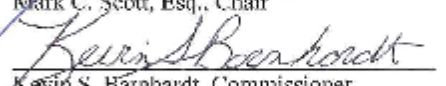
RESOLUTION NO. 345-10

BE IT RESOLVED AND IT IS HEREBY RESOLVED that the Berks County Board of Commissioners hereby authorizes execution of a Communications System Agreement between the County of Berks and Motorola, Inc. subject to final negotiation and approval of all terms and conditions of said agreement by the County Solicitor and Fox Rothschild LLP.

ADOPTED THIS 18th DAY OF NOVEMBER, 2010.

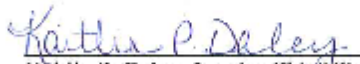
COUNTY OF BERKS


Mark C. Scott, Esq., Chair


Kevin S. Barnhardt, Commissioner


Christian Y. Leinbach, Commissioner

Attest:


Kaitlin P. Daley, Interim Chief Clerk

Appendix C – Relinquished Spectrum

<u>Licensee</u>	<u>Call Sign</u>	<u>Frequencies</u>	<u>Will be Vacated</u>
Berks County Department of Emergency Services	KB36804	453.0375	TBD
Berks County Department of Emergency Services	KB36904	154.7250	TBD
Berks County Department of Emergency Services	KD29640	154.2650	No
		153.8300	No
Berks County Department of Emergency Services	KD38140	460.5875	TBD
		465.5875	TBD
Berks County Department of Emergency Services	KKC815	155.0700	No
		156.2100	TBD
Berks County Department of Emergency Services	KNCB871	154.1000	TBD
Berks County Department of Emergency Services	KNDS855	155.0100	TBD
Berks County Department of Emergency Services	KNGZ321	155.1600	TBD
		155.2200	TBD
		155.2950	No
		155.3400	TBD
Berks County Department of Emergency Services	KNHD996	154.6500	TBD
		155.5950	TBD
Berks County Department of Emergency Services	KZT517	154.1000	TBD
		154.9800	No
Berks County Department of Emergency Services	WNCB939	153.8900	TBD
		154.1600	TBD
		154.3100	TBD
		154.3550	TBD
		154.4000	TBD
Berks County Department of Emergency Services	WNMU915	151.2200	No
		153.8150	No
Berks County Department of Emergency Services	WPBW981	150.7900	TBD

Berks County Department of Emergency Services	WPCP892	153.7400	TBD
		153.8000	TBD
		153.8750	TBD
		153.9050	TBD
		154.1000	No
		156.0600	TBD
Berks County Department of Emergency Services	WPCZ969	158.8650	TBD
Berks County Department of Emergency Services	WPGZ234	155.0700	No
		156.2100	TBD
Berks County Department of Emergency Services	WPHP691	453.5000	TBD
Berks County Department of Emergency Services	WPIE610	151.2350	TBD
Berks County Department of Emergency Services	WPRW622	151.2650	TBD
		159.4650	TBD
Berks County Department of Emergency Services	WNVL764	854.2625	No
		856.0875	TBD
		857.0875	No
Berks County Department of Emergency Services	WPZR896	460.5375	TBD
		465.5375	TBD
Berks County Department of Emergency Services	WQBB475	460.4000	TBD
		465.4000	TBD
Berks County Department of Emergency Services	WQBQ533	460.4375	TBD
		465.4375	TBD
Berks County Department of Emergency Services	WQFN438	453.8875	TBD
		453.9125	TBD
		458.8875	TBD
		458.9125	TBD
		458.9375	TBD
Berks County Department of Emergency Services	WQGC763	151.2200	No
Berks County Department of Emergency Services	WQGF938	151.2200	No

Berks County Department of Emergency Services	WQGH982	460.2500	TBD
		465.2500	TBD
Berks County Department of Emergency Services	WQKI945	159.4050	No
Berks County Department of Emergency Services	WNWP519	154.7250	TBD
		155.2500	TBD

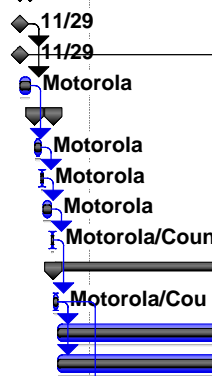
Appendix D – Narorwbanding Schedule










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Berks County, PA Project Schedule

Motorola

ID	Task Name	% Cmplt	Duration	Working Start	Working Finish	2011				
						Oct	Nov	Dec	Jan	Feb
1	Berks County Project	24%	647 days	Mon 11/29/10	Tue 5/21/13					
2	Contract	100%	5 days	Mon 11/29/10	Fri 12/3/10					
3	<i>Contract Award</i>	100%	0 days	Mon 11/29/10	Mon 11/29/10					
4	<i>Invoice Milestone: Execution of Contract</i>	100%	0 days	Mon 11/29/10	Mon 11/29/10					
5	Contract Administration	100%	5 days	Mon 11/29/10	Fri 12/3/10					
6	Project Kick-Off	100%	7 days	Mon 12/6/10	Tue 12/14/10					
7	Assemble Kick-Off Data	100%	3 days	Mon 12/6/10	Wed 12/8/10					
8	Internal Project Kick-Off Meeting	100%	1 day	Thu 12/9/10	Thu 12/9/10					
9	Define County Deliverables	100%	2 days	Fri 12/10/10	Mon 12/13/10					
10	Project Kick-Off Meeting	100%	1 day	Tue 12/14/10	Tue 12/14/10					
11	Contract Design Review (CDR)	100%	208 days	Wed 12/15/10	Fri 9/30/11					
12	System Architecture & Footprint	100%	2 days	Wed 12/15/10	Thu 12/16/10					
13	Frequency Plans / Loading Analysis	100%	96 days	Fri 12/17/10	Fri 4/29/11					
14	Finalize Coverage / Site Design	100%	96 days	Fri 12/17/10	Fri 4/29/11					
15	<i>County Approval on Coverage and Site Design (Site/Coverage Design Frozen)</i>	100%	0 days	Fri 4/29/11	Fri 4/29/11					
16	System Design	100%	10 days	Mon 5/2/11	Fri 5/13/11					
17	<i>Detailed System Design Complete</i>	100%	0 days	Fri 5/13/11	Fri 5/13/11					
18	Update Documentation & Pricing	100%	20 days	Mon 5/16/11	Fri 6/10/11					
19	<i>Present Final Design to County</i>	100%	0 days	Fri 6/10/11	Fri 6/10/11					
20	CDR Package Review	100%	10 days	Mon 6/13/11	Fri 6/24/11					
21	CDR Package Revisions	100%	25 days	Mon 6/27/11	Fri 7/29/11					
22	CDR Package II Review	100%	5 days	Mon 8/1/11	Fri 8/5/11					
23	CDR Package III Revisions	100%	25 days	Mon 8/8/11	Fri 9/9/11					
24	CDR Package III Review	100%	10 days	Mon 9/12/11	Fri 9/23/11					
25	<i>CDR Approved by County (System Design and Implementation Frozen)</i>	100%	0 days	Fri 9/23/11	Fri 9/23/11					
26	CDR Change Order Review	100%	5 days	Mon 9/26/11	Fri 9/30/11					
27	<i>CDR Change Order Approved by County</i>	100%	0 days	Fri 9/30/11	Fri 9/30/11					
28	<i>Invoice Milestone: CDR Completion</i>	100%	0 days	Fri 9/30/11	Fri 9/30/11					
29	FNE Order Processing	100%	15 days	Mon 9/26/11	Fri 10/14/11					
30	Order Administration	100%	12 days	Mon 9/26/11	Tue 10/11/11					
31	Make Order	100%	3 days	Wed 10/12/11	Fri 10/14/11					
32	<i>Order Bridged</i>	100%	0 days	Fri 10/14/11	Fri 10/14/11					
33	Fleetmapping	59%	194 days	Tue 9/27/11	Fri 6/22/12					
34	<i>Determine models & quantities of mobiles and portables</i>	73%	150 days	Mon 10/3/11	Fri 4/27/12					



Project: Berks County, PA Date: 3/13/2012	Task		Milestone		External Tasks	
	Split		Summary		External Milestone	
	Progress		Project Summary		Deadline	

Berks County, PA Project Schedule

Motorola

ID	Task Name	% Cmplt	Duration	Working Start	Working Finish	2011				
						Oct	Nov	Dec	Jan	Feb
35	Train County on System Features	75%	114 days	Tue 9/27/11	Fri 3/2/12					
36	Define Operational Requirements	75%	114 days	Tue 9/27/11	Fri 3/2/12					
37	Develop Fleet Maps (Subscribers and Consoles)	37%	151 days	Fri 9/30/11	Fri 4/27/12					
38	Review Proposed Fleet Map	0%	5 days	Mon 4/30/12	Fri 5/4/12					
39	Fleetmap Approved by County	0%	0 days	Fri 5/4/12	Fri 5/4/12					
40	Develop Templates (Subscribers and Consoles)	0%	20 days	Mon 5/7/12	Fri 6/1/12					
41	Program Sample Subscribers	0%	10 days	Mon 6/4/12	Fri 6/15/12					
42	Beta Test Subscribers	0%	5 days	Mon 6/18/12	Fri 6/22/12					
43	Fleetmap Complete	0%	0 days	Fri 6/22/12	Fri 6/22/12					
44	Subscriber Order Processing	0%	140 days	Mon 4/30/12	Fri 11/9/12					
45	Order Administration	0%	130 days	Mon 4/30/12	Fri 10/26/12					
46	Make Order	0%	130 days	Mon 5/14/12	Fri 11/9/12					
47	Final Order Bridged	0%	0 days	Fri 11/9/12	Fri 11/9/12					
48	Subscribers	0%	195 days	Mon 6/11/12	Fri 3/8/13					
49	Ship Subscribers	0%	135 days	Mon 6/11/12	Fri 12/14/12					
50	Motorola Ship Complete	0%	0 days	Fri 12/14/12	Fri 12/14/12					
51	Invoice Milestone: 30% Subscriber Shipment	0%	0 days	Fri 12/14/12	Fri 12/14/12					
52	Inventory Subscribers	0%	135 days	Mon 6/18/12	Fri 12/21/12					
53	Mobile Subscribers	0%	185 days	Mon 6/25/12	Fri 3/8/13					
54	Programming (8 radios / day)	0%	180 days	Mon 6/25/12	Fri 3/1/13					
55	Installations (8 radios / day)	0%	180 days	Mon 7/2/12	Fri 3/8/13					
56	Mobile Installs Complete	0%	0 days	Fri 3/8/13	Fri 3/8/13					
57	Portable Subscribers	0%	185 days	Mon 6/25/12	Fri 3/8/13					
58	Programming (20 radios / day)	0%	180 days	Mon 6/25/12	Fri 3/1/13					
59	Distribute (20 radios / day)	0%	180 days	Mon 7/2/12	Fri 3/8/13					
60	Portable Installs Complete	0%	0 days	Fri 3/8/13	Fri 3/8/13					
61	Invoice Milestone: 30% Subscriber Install	0%	0 days	Fri 3/8/13	Fri 3/8/13					
62	Mt. Penn to Fancy Hill Temporary T1 Circuit	100%	126 days	Thu 4/14/11	Thu 10/6/11					
63	Site Walk / Design Review	100%	1 day	Thu 4/14/11	Thu 4/14/11					
64	Order T1 Circuit	100%	11 days	Fri 7/1/11	Fri 7/15/11					
65	Install T1 Circuit	100%	40 days	Mon 7/18/11	Fri 9/9/11					
66	Circuit Testing and Prep Work	100%	5 days	Mon 9/12/11	Fri 9/16/11					
67	Cutover and Testing	100%	5 days	Mon 9/19/11	Fri 9/23/11					
68	Release Frequency to Verizon	100%	1 day	Mon 9/26/11	Mon 9/26/11					
69	Remove Existing Dish and Waveguide from Tower	100%	4 days	Tue 9/27/11	Fri 9/30/11					
70	T1 Circuit Installation Complete	100%	0 days	Fri 9/30/11	Fri 9/30/11					

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ID	Task Name	% Cmplt	Duration	Working Start	Working Finish	2011				
						Oct	Nov	Dec	Jan	Feb
71	Remove Remaining Waveguide, Equipment & Dispose	100%	4 days	Mon 10/3/11	Thu 10/6/11					
72	Non-Staged Site Equipment	0%	127 days	Mon 10/17/11	Tue 4/10/12					
73	Manufacturer Non-Staged Equipment	0%	25 days	Mon 10/17/11	Fri 11/18/11					
74	Ship Equipment	0%	95 days	Mon 11/21/11	Fri 3/30/12					
75	Receive / Inventory / Kit Equipment	0%	7 days	Mon 4/2/12	Tue 4/10/12					
76	Motorola Staged Equipment	75%	165 days	Mon 10/17/11	Fri 6/1/12					
77	Staging Kick-Off Meeting	100%	5 days	Mon 10/17/11	Fri 10/21/11					
78	Produce Staging Documents	100%	15 days	Mon 10/24/11	Fri 11/11/11					
79	Manufacture Motorola Equipment	100%	20 days	Mon 10/17/11	Fri 11/11/11					
80	Manufacture Drop Ship Equipment	100%	30 days	Mon 10/17/11	Fri 11/25/11					
81	Assemble Equipment	75%	45 days	Mon 1/9/12	Fri 3/9/12					
82	Program Equipment	75%	36 days	Mon 3/12/12	Mon 4/30/12					
83	Pre-SATP	0%	5 days	Tue 5/1/12	Mon 5/7/12					
84	SATP	0%	4 days	Tue 5/8/12	Fri 5/11/12					
85	<i>Staging Approved by County</i>	<i>0%</i>	<i>0 days</i>	<i>Fri 5/11/12</i>	<i>Fri 5/11/12</i>					
86	Resolve Punch List Items	0%	5 days	Mon 5/14/12	Fri 5/18/12					
87	Pack / Ship Equipment to Berks County	0%	5 days	Mon 5/21/12	Fri 5/25/12					
88	<i>Motorola Ship Complete</i>	<i>0%</i>	<i>0 days</i>	<i>Fri 5/25/12</i>	<i>Fri 5/25/12</i>					
89	<i>Invoice Milestone: FNE Shipment</i>	<i>0%</i>	<i>0 days</i>	<i>Fri 5/25/12</i>	<i>Fri 5/25/12</i>					
90	Receive / Inventory Equipment	0%	5 days	Mon 5/28/12	Fri 6/1/12					
91	Training	0%	180 days	Mon 4/30/12	Fri 1/4/13					
92	Develope Training Plan	0%	30 days	Mon 4/30/12	Fri 6/8/12					
93	<i>Training Plan Approved by County</i>	<i>0%</i>	<i>0 days</i>	<i>Fri 6/8/12</i>	<i>Fri 6/8/12</i>					
94	Develop Training Material	0%	60 days	Mon 6/11/12	Fri 8/31/12					
95	Schedule Training	0%	10 days	Mon 9/3/12	Fri 9/14/12					
96	Conduct Training	0%	80 days	Mon 9/17/12	Fri 1/4/13					
97	Site Construction / Development	64%	385 days	Thu 3/17/11	Thu 9/6/12					
98	Group A	64%	297 days	Thu 3/17/11	Fri 5/4/12					
99	BCCC	56%	247 days	Thu 3/17/11	Fri 2/24/12					
100	Site Design Walk	100%	1 day	Thu 3/17/11	Thu 3/17/11					
101	Generate Construction Drawings	100%	5 days	Mon 10/3/11	Fri 10/7/11					
102	Design Review	100%	1 day	Mon 10/10/11	Mon 10/10/11					
103	<i>Design Approved by County</i>	<i>100%</i>	<i>0 days</i>	<i>Mon 10/10/11</i>	<i>Mon 10/10/11</i>					
104	Order Equipments / Material	100%	1 day	Tue 10/11/11	Tue 10/11/11					
105	Installation	100%	13 days	Mon 10/31/11	Wed 11/16/11					
106	Inspection / Punch List Generation	100%	1 day	Thu 11/17/11	Thu 11/17/11					

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Task 

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Progress 

Milestone 

Summary 

Project Summary 

External Tasks 

External Milestone 

Deadline 


Berks County, PA Project Schedule

Motorola

ID	Task Name	% Cmplt	Duration	Working Start	Working Finish	2011				
						Oct	Nov	Dec	Jan	Feb
107	Punch List Resolution	10%	15 days	Mon 1/30/12	Fri 2/17/12					
108	As-Built Drawings	0%	5 days	Mon 2/20/12	Fri 2/24/12					
109	<i>BCCC - Site Development Complete</i>	<i>0%</i>	<i>0 days</i>	<i>Fri 2/24/12</i>	<i>Fri 2/24/12</i>					
110	Courthouse	65%	297 days	Thu 3/17/11	Fri 5/4/12					
111	UPS	88%	272 days	Thu 3/17/11	Fri 3/30/12					
112	Site Design Walk	100%	1 day	Thu 3/17/11	Thu 3/17/11					
113	Generate Construction Drawings	100%	101 days	Fri 3/18/11	Fri 8/5/11					
114	Design Review	100%	5 days	Mon 8/8/11	Fri 8/12/11					
115	Revise Construction Drawings	100%	10 days	Mon 8/15/11	Fri 8/26/11					
116	<i>Design Approved by County</i>	<i>100%</i>	<i>0 days</i>	<i>Fri 8/26/11</i>	<i>Fri 8/26/11</i>					
117	<i>County Equipment Room Renovation Complete</i>	<i>100%</i>	<i>0 days</i>	<i>Mon 1/2/12</i>	<i>Mon 1/2/12</i>					
118	Place Equipment Orders	100%	5 days	Mon 10/17/11	Fri 10/21/11					
119	Installation	100%	36 days	Tue 1/3/12	Tue 2/21/12					
120	Inspection / Punch List Generation	100%	1 day	Wed 2/22/12	Wed 2/22/12					
121	Punch List Resolution	25%	17 days	Thu 2/23/12	Fri 3/16/12					
122	As-Built Drawings	0%	10 days	Mon 3/19/12	Fri 3/30/12					
123	<i>UPS Installation Complete</i>	<i>0%</i>	<i>0 days</i>	<i>Fri 3/30/12</i>	<i>Fri 3/30/12</i>					
124	Rooftop	23%	269 days	Tue 4/26/11	Fri 5/4/12					
125	Site Design Walk	100%	1 day	Tue 4/26/11	Tue 4/26/11					
126	Cutover Plan Development	100%	10 days	Mon 10/3/11	Fri 10/14/11					
127	Design New Tower	0%	10 days	Mon 2/27/12	Fri 3/9/12					
128	Design Review	0%	2 days	Mon 3/12/12	Tue 3/13/12					
129	<i>Design Approved by County</i>	<i>0%</i>	<i>0 days</i>	<i>Tue 3/13/12</i>	<i>Tue 3/13/12</i>					
130	Order New Tower	0%	30 days	Wed 3/14/12	Tue 4/24/12					
131	Order Antennae Relocation Materials	100%	2 days	Tue 10/18/11	Wed 10/19/11					
132	Receive / Inventory Materials	100%	2 days	Thu 11/24/11	Fri 11/25/11					
133	Deliver Equipment	100%	1 day	Mon 11/28/11	Mon 11/28/11					
134	Relocate Antennae from Existing Tower	100%	3 days	Tue 11/29/11	Thu 12/1/11					
135	Inspection / Punch List Generation	100%	1 day	Fri 12/2/11	Fri 12/2/11					
136	Punch List Resolution	100%	3 days	Mon 12/5/11	Wed 12/7/11					
137	Demolish / Remove Existing Tower	0%	4 days	Mon 3/19/12	Thu 3/22/12					
138	Install New Tower Support Structure	0%	23 days	Fri 3/23/12	Tue 4/24/12					
139	Install New Tower	0%	8 days	Wed 4/25/12	Fri 5/4/12					
140	<i>Courthouse - Site Development Complete</i>	<i>0%</i>	<i>0 days</i>	<i>Fri 5/4/12</i>	<i>Fri 5/4/12</i>					
141	<i>City Hall - Site Development Complete</i>	<i>0%</i>	<i>0 days</i>	<i>Fri 2/3/12</i>	<i>Fri 2/3/12</i>					
142	<i>North Campus - Site Development Complete</i>	<i>0%</i>	<i>0 days</i>	<i>Tue 4/3/12</i>	<i>Tue 4/3/12</i>					

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Task 

Milestone 

External Tasks 


Split 

Summary 

External Milestone 

Progress 

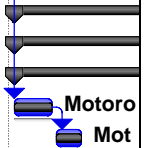
Project Summary 

Deadline 

Berks County, PA Project Schedule

Motorola

ID	Task Name	% Cmplt	Duration	Working Start	Working Finish	2011				
						Oct	Nov	Dec	Jan	Feb
143	<i>Mt. Penn II - Site Development Complete</i>	0%	0 days	<i>Wed 4/25/12</i>	<i>Wed 4/25/12</i>					
144	Group B	0%	92 days	Tue 5/1/12	Thu 9/6/12					
145	<i>Ontelaunee - Site Development Complete</i>	0%	0 days	<i>Wed 5/16/12</i>	<i>Wed 5/16/12</i>					
146	<i>Centre - Site Development Complete</i>	0%	0 days	<i>Wed 5/2/12</i>	<i>Wed 5/2/12</i>					
147	<i>Hamburg - Site Development Complete</i>	0%	0 days	<i>Tue 5/1/12</i>	<i>Tue 5/1/12</i>					
148	<i>Albany - Site Development Complete</i>	0%	0 days	<i>Thu 9/6/12</i>	<i>Thu 9/6/12</i>					
149	<i>Kutztown - Site Development Complete</i>	0%	0 days	<i>Thu 8/2/12</i>	<i>Thu 8/2/12</i>					
150	Group C	0%	65 days	Wed 5/9/12	Wed 8/8/12					
151	<i>Alsace - Site Development Complete</i>	0%	0 days	<i>Wed 5/9/12</i>	<i>Wed 5/9/12</i>					
152	<i>Earl - Site Development Complete</i>	0%	0 days	<i>Mon 5/21/12</i>	<i>Mon 5/21/12</i>					
153	<i>Bally - Site Development Complete</i>	0%	0 days	<i>Wed 5/23/12</i>	<i>Wed 5/23/12</i>					
154	<i>Robeson - Site Development Complete</i>	0%	0 days	<i>Fri 5/25/12</i>	<i>Fri 5/25/12</i>					
155	<i>Cumru - Site Development Complete</i>	0%	0 days	<i>Wed 7/18/12</i>	<i>Wed 7/18/12</i>					
156	<i>Turnpike - Site Development Complete</i>	0%	0 days	<i>Wed 7/25/12</i>	<i>Wed 7/25/12</i>					
157	<i>Union - Site Development Complete</i>	0%	0 days	<i>Wed 8/8/12</i>	<i>Wed 8/8/12</i>					
158	<i>North Heidelberg - Site Development Complete</i>	0%	0 days	<i>Mon 6/4/12</i>	<i>Mon 6/4/12</i>					
159	Group D	0%	89 days	Fri 5/4/12	Thu 9/6/12					
160	<i>Bethel - Site Development Complete</i>	0%	0 days	<i>Fri 8/17/12</i>	<i>Fri 8/17/12</i>					
161	<i>Blue Mountain - Site Development Complete</i>	0%	0 days	<i>Fri 6/1/12</i>	<i>Fri 6/1/12</i>					
162	<i>Longswamp - Site Development Complete</i>	0%	0 days	<i>Thu 9/6/12</i>	<i>Thu 9/6/12</i>					
163	<i>West Penn - Site Development Complete</i>	0%	0 days	<i>Fri 5/4/12</i>	<i>Fri 5/4/12</i>					
164	System Integration	3%	621 days	Tue 1/4/11	Tue 5/21/13					
165	Microwave Subsystem	10%	458 days	Tue 1/4/11	Thu 10/4/12					
166	Path Surveys	39%	284 days	Tue 1/4/11	Fri 2/3/12					
167	Initial Path Surveys	100%	14 days	Tue 1/4/11	Fri 1/21/11					
168	Initial Report	100%	10 days	Mon 1/24/11	Fri 2/4/11					
169	Secondary Path Surveys	100%	10 days	Mon 10/3/11	Fri 10/14/11					
170	Secondary Report	100%	10 days	Mon 10/17/11	Fri 10/28/11					
171	Finalize Microwave Design	0%	70 days	Mon 10/31/11	Fri 2/3/12					
172	Frequency Coordination	0%	25 days	Mon 1/9/12	Fri 2/10/12					
173	Frequencies	0%	5 days	Mon 1/9/12	Fri 1/13/12					
174	Supplemental Showing	0%	15 days	Mon 1/16/12	Fri 2/3/12					
175	FCC Licenses	0%	5 days	Mon 2/6/12	Fri 2/10/12					
176	Manufacture Dishes, Waveguides and Materials	0%	10 days	Mon 3/26/12	Fri 4/6/12					
177	Ship Equipment	0%	5 days	Mon 3/26/12	Fri 3/30/12					
178	Receive / Inventory Equipment	0%	5 days	Mon 4/2/12	Fri 4/6/12					



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Task		Milestone		External Tasks	
Split		Summary		External Milestone	
Progress		Project Summary		Deadline	

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Motorola


ID	Task Name	% Cmplt	Duration	Working Start	Working Finish	2011				
						Oct	Nov	Dec	Jan	Feb
179	Manufacture Microwave	0%	70 days	Mon 1/2/12	Fri 4/6/12					
180	Manufacture MPLS	0%	10 days	Mon 1/2/12	Fri 1/13/12					
181	Pack / Ship MPLS to CCSi	0%	5 days	Mon 1/16/12	Fri 1/20/12					
182	Manufacture Radios	0%	20 days	Mon 2/6/12	Fri 3/2/12					
183	Integration / Testing Radios	0%	15 days	Mon 3/5/12	Fri 3/23/12					
184	Pack / Ship Radios to Berks County	0%	5 days	Mon 3/26/12	Fri 3/30/12					
185	<i>Microwave Ship Complete</i>	0%	0 days	Fri 3/30/12	Fri 3/30/12					
186	<i>Invoice Milestone: Shipment of Microwave Equipment</i>	0%	5 days	Mon 4/2/12	Fri 4/6/12					
187	Receive / Inventory Equipment	0%	5 days	Mon 4/2/12	Fri 4/6/12					
188	Microwave Dish Installation	0%	118 days	Mon 4/9/12	Wed 9/19/12					
189	BCCC to Courthouse	0%	8 days	Mon 4/9/12	Wed 4/18/12					
190	Deliver Materials to BCCC & Courthouse	0%	4 days	Mon 4/9/12	Thu 4/12/12					
191	Install Dishes	0%	3 days	Fri 4/13/12	Tue 4/17/12					
192	Align Path	0%	1 day	Wed 4/18/12	Wed 4/18/12					
193	Courthouse to City Hall (Via Services)	0%	10 days	Thu 4/19/12	Wed 5/2/12					
194	Deliver Materials to City Hall & Services	0%	2 days	Thu 4/19/12	Fri 4/20/12					
195	Install Dishes	0%	5 days	Mon 4/23/12	Fri 4/27/12					
196	Align Path	0%	3 days	Mon 4/30/12	Wed 5/2/12					
197	Courthouse to North Campus	0%	5 days	Thu 5/3/12	Wed 5/9/12					
198	Deliver Materials to North Campus	0%	1 day	Thu 5/3/12	Thu 5/3/12					
199	Install Dishes	0%	3 days	Fri 5/4/12	Tue 5/8/12					
200	Align Path	0%	1 day	Wed 5/9/12	Wed 5/9/12					
201	City Hall to Mt. Penn II	0%	5 days	Thu 5/10/12	Wed 5/16/12					
202	Deliver Materials to Mt. Penn II	0%	1 day	Thu 5/10/12	Thu 5/10/12					
203	Install Dishes	0%	3 days	Fri 5/11/12	Tue 5/15/12					
204	Align Path	0%	1 day	Wed 5/16/12	Wed 5/16/12					
205	BCCC to Ontelaunee	0%	4 days	Wed 5/16/12	Mon 5/21/12					
206	Deliver Materials to Ontelaunee	0%	1 day	Wed 5/16/12	Wed 5/16/12					
207	Install Dishes	0%	2 days	Thu 5/17/12	Fri 5/18/12					
208	Align Path	0%	1 day	Mon 5/21/12	Mon 5/21/12					
209	Kutztown to Albany	0%	3 days	Mon 9/17/12	Wed 9/19/12					
210	Install Dishes	0%	2 days	Mon 9/17/12	Tue 9/18/12					
211	Align Path	0%	1 day	Wed 9/19/12	Wed 9/19/12					
212	Ontelaunee to Centre	0%	4 days	Tue 5/22/12	Fri 5/25/12					
213	Deliver Materials to Centre	0%	1 day	Tue 5/22/12	Tue 5/22/12					
214	Install Dishes	0%	2 days	Wed 5/23/12	Thu 5/24/12					

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Project Summary 

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Berks County, PA Project Schedule

Motorola

ID	Task Name	% Cmplt	Duration	Working Start	Working Finish	2011				
						Oct	Nov	Dec	Jan	Feb
215	Align Path	0%	1 day	Fri 5/25/12	Fri 5/25/12					
216	Albany to Hamburg	0%	3 days	Wed 9/12/12	Fri 9/14/12					
217	Install Dishes	0%	2 days	Wed 9/12/12	Thu 9/13/12					
218	Align Path	0%	1 day	Fri 9/14/12	Fri 9/14/12					
219	Centre to Hamburg	0%	4 days	Fri 6/1/12	Wed 6/6/12					
220	Deliver Materials to Hamburg	0%	1 day	Fri 6/1/12	Fri 6/1/12					
221	Install Dishes	0%	2 days	Mon 6/4/12	Tue 6/5/12					
222	Align Path	0%	1 day	Wed 6/6/12	Wed 6/6/12					
223	Ontelaunee to Alsace	0%	4 days	Mon 5/28/12	Thu 5/31/12					
224	Deliver Materials to Alsace	0%	1 day	Mon 5/28/12	Mon 5/28/12					
225	Install Dishes	0%	2 days	Tue 5/29/12	Wed 5/30/12					
226	Align Path	0%	1 day	Thu 5/31/12	Thu 5/31/12					
227	Mt. Penn II to Robeson	0%	4 days	Fri 5/25/12	Wed 5/30/12					
228	Deliver Materials to Robeson	0%	1 day	Fri 5/25/12	Fri 5/25/12					
229	Install Dishes	0%	2 days	Mon 5/28/12	Tue 5/29/12					
230	Align Path	0%	1 day	Wed 5/30/12	Wed 5/30/12					
231	Alsace to Earl	0%	4 days	Fri 6/1/12	Wed 6/6/12					
232	Deliver Materials to Earl	0%	1 day	Fri 6/1/12	Fri 6/1/12					
233	Install Dishes	0%	2 days	Mon 6/4/12	Tue 6/5/12					
234	Align Path	0%	1 day	Wed 6/6/12	Wed 6/6/12					
235	Robeson to Cumru	0%	4 days	Fri 7/27/12	Wed 8/1/12					
236	Deliver Materials to Cumru	0%	1 day	Fri 7/27/12	Fri 7/27/12					
237	Install Dishes	0%	2 days	Mon 7/30/12	Tue 7/31/12					
238	Align Path	0%	1 day	Wed 8/1/12	Wed 8/1/12					
239	Earl to Union	0%	3 days	Tue 8/14/12	Thu 8/16/12					
240	Install Dishes	0%	2 days	Tue 8/14/12	Wed 8/15/12					
241	Align Path	0%	1 day	Thu 8/16/12	Thu 8/16/12					
242	Cumru to Turnpike	0%	4 days	Thu 8/2/12	Tue 8/7/12					
243	Deliver Materials to Turnpike	0%	1 day	Thu 8/2/12	Thu 8/2/12					
244	Install Dishes	0%	2 days	Fri 8/3/12	Mon 8/6/12					
245	Align Path	0%	1 day	Tue 8/7/12	Tue 8/7/12					
246	Earl to Bally	0%	4 days	Thu 6/7/12	Tue 6/12/12					
247	Deliver Materials to Bally	0%	1 day	Thu 6/7/12	Thu 6/7/12					
248	Install Dishes	0%	2 days	Fri 6/8/12	Mon 6/11/12					
249	Align Path	0%	1 day	Tue 6/12/12	Tue 6/12/12					
250	Turnpike to Union	0%	4 days	Wed 8/8/12	Mon 8/13/12					

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Task



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ID	Task Name	% Cmplt	Duration	Working Start	Working Finish	2011				
						Oct	Nov	Dec	Jan	Feb
251	Deliver Materials to Union	0%	1 day	Wed 8/8/12	Wed 8/8/12					
252	Install Dishes	0%	2 days	Thu 8/9/12	Fri 8/10/12					
253	Align Path	0%	1 day	Mon 8/13/12	Mon 8/13/12					
254	North Campus to North Heidelberg	0%	4 days	Mon 6/4/12	Thu 6/7/12					
255	Deliver Materials to North Heidelberg	0%	1 day	Mon 6/4/12	Mon 6/4/12					
256	Install Dishes	0%	2 days	Tue 6/5/12	Wed 6/6/12					
257	Align Path	0%	1 day	Thu 6/7/12	Thu 6/7/12					
258	Kutztown to West Penn	0%	5 days	Fri 8/10/12	Thu 8/16/12					
259	Deliver Materials to Kutztown and West Penn	0%	2 days	Fri 8/10/12	Mon 8/13/12					
260	Install Dishes	0%	2 days	Tue 8/14/12	Wed 8/15/12					
261	Align Path	0%	1 day	Thu 8/16/12	Thu 8/16/12					
262	North Heidelberg to Bethel	0%	4 days	Fri 8/17/12	Wed 8/22/12					
263	Deliver Materials to Bethel	0%	1 day	Fri 8/17/12	Fri 8/17/12					
264	Install Dishes	0%	2 days	Mon 8/20/12	Tue 8/21/12					
265	Align Path	0%	1 day	Wed 8/22/12	Wed 8/22/12					
266	West Penn to Longswamp	0%	3 days	Wed 9/12/12	Fri 9/14/12					
267	Install Dishes	0%	2 days	Wed 9/12/12	Thu 9/13/12					
268	Align Path	0%	1 day	Fri 9/14/12	Fri 9/14/12					
269	Bethel to Blue Mountain	0%	4 days	Thu 8/23/12	Tue 8/28/12					
270	Deliver Materials to Blue Mountain	0%	1 day	Thu 8/23/12	Thu 8/23/12					
271	Install Dishes	0%	2 days	Fri 8/24/12	Mon 8/27/12					
272	Align Path	0%	1 day	Tue 8/28/12	Tue 8/28/12					
273	Bally to Longswamp	0%	4 days	Thu 9/6/12	Tue 9/11/12					
274	Deliver Materials to Longswamp	0%	1 day	Thu 9/6/12	Thu 9/6/12					
275	Install Dishes	0%	2 days	Fri 9/7/12	Mon 9/10/12					
276	Align Path	0%	1 day	Tue 9/11/12	Tue 9/11/12					
277	Blue Mountain to Albany	0%	4 days	Thu 9/6/12	Tue 9/11/12					
278	Deliver Materials to Albany	0%	1 day	Thu 9/6/12	Thu 9/6/12					
279	Install Dishes	0%	2 days	Fri 9/7/12	Mon 9/10/12					
280	Align Path	0%	1 day	Tue 9/11/12	Tue 9/11/12					
281	Microwave Radio Installation	0%	121 days	Thu 4/19/12	Thu 10/4/12					
282	BCCC	0%	5 days	Thu 4/19/12	Wed 4/25/12					
283	Deliver Microwave Radios	0%	1 day	Thu 4/19/12	Thu 4/19/12					
284	Install Microwave Radios	0%	4 days	Fri 4/20/12	Wed 4/25/12					
285	Courthouse	0%	6 days	Thu 4/26/12	Thu 5/3/12					
286	Deliver Microwave Radios	0%	2 days	Thu 4/26/12	Fri 4/27/12					

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ID	Task Name	% Cmplt	Duration	Working Start	Working Finish	2011				
						Oct	Nov	Dec	Jan	Feb
287	Install Microwave Radios	0%	4 days	Mon 4/30/12	Thu 5/3/12					
288	City Hall	0%	3 days	Fri 5/4/12	Tue 5/8/12					
289	Deliver Microwave Radios	0%	1 day	Fri 5/4/12	Fri 5/4/12					
290	Install Microwave Radios	0%	2 days	Mon 5/7/12	Tue 5/8/12					
291	North Campus	0%	5 days	Thu 5/10/12	Wed 5/16/12					
292	Deliver Microwave Radios	0%	1 day	Thu 5/10/12	Thu 5/10/12					
293	Install Microwave Radios	0%	4 days	Fri 5/11/12	Wed 5/16/12					
294	Mt. Penn II	0%	4 days	Thu 5/17/12	Tue 5/22/12					
295	Deliver Microwave Radios	0%	1 day	Thu 5/17/12	Thu 5/17/12					
296	Install Microwave Radios	0%	3 days	Fri 5/18/12	Tue 5/22/12					
297	Ontelaunee	0%	4 days	Fri 6/1/12	Wed 6/6/12					
298	Deliver Microwave Radios	0%	1 day	Fri 6/1/12	Fri 6/1/12					
299	Install Microwave Radios	0%	3 days	Mon 6/4/12	Wed 6/6/12					
300	Kutztown	0%	4 days	Fri 8/17/12	Wed 8/22/12					
301	Deliver Microwave Radios	0%	1 day	Fri 8/17/12	Fri 8/17/12					
302	Install Microwave Radios	0%	3 days	Mon 8/20/12	Wed 8/22/12					
303	Albany	0%	4 days	Thu 9/20/12	Tue 9/25/12					
304	Deliver Microwave Radios	0%	1 day	Thu 9/20/12	Thu 9/20/12					
305	Install Microwave Radios	0%	3 days	Fri 9/21/12	Tue 9/25/12					
306	Centre	0%	4 days	Mon 6/11/12	Thu 6/14/12					
307	Deliver Microwave Radios	0%	1 day	Mon 6/11/12	Mon 6/11/12					
308	Install Microwave Radios	0%	3 days	Tue 6/12/12	Thu 6/14/12					
309	Hamburg	0%	4 days	Thu 6/7/12	Tue 6/12/12					
310	Deliver Microwave Radios	0%	1 day	Thu 6/7/12	Thu 6/7/12					
311	Install Microwave Radios	0%	3 days	Fri 6/8/12	Tue 6/12/12					
312	Alsace	0%	4 days	Tue 6/19/12	Fri 6/22/12					
313	Deliver Microwave Radios	0%	1 day	Tue 6/19/12	Tue 6/19/12					
314	Install Microwave Radios	0%	3 days	Wed 6/20/12	Fri 6/22/12					
315	Robeson	0%	4 days	Thu 5/31/12	Tue 6/5/12					
316	Deliver Microwave Radios	0%	1 day	Thu 5/31/12	Thu 5/31/12					
317	Install Microwave Radios	0%	3 days	Fri 6/1/12	Tue 6/5/12					
318	Earl	0%	4 days	Wed 6/13/12	Mon 6/18/12					
319	Deliver Microwave Radios	0%	1 day	Wed 6/13/12	Wed 6/13/12					
320	Install Microwave Radios	0%	3 days	Thu 6/14/12	Mon 6/18/12					
321	Cumru	0%	4 days	Wed 8/8/12	Mon 8/13/12					
322	Deliver Microwave Radios	0%	1 day	Wed 8/8/12	Wed 8/8/12					

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ID	Task Name	% Cmplt	Duration	Working Start	Working Finish	2011				
						Oct	Nov	Dec	Jan	Feb
323	Install Microwave Radios	0%	3 days	Thu 8/9/12	Mon 8/13/12					
324	Union	0%	4 days	Fri 8/24/12	Wed 8/29/12					
325	Deliver Microwave Radios	0%	1 day	Fri 8/24/12	Fri 8/24/12					
326	Install Microwave Radios	0%	3 days	Mon 8/27/12	Wed 8/29/12					
327	Turnpike	0%	4 days	Thu 8/16/12	Tue 8/21/12					
328	Deliver Microwave Radios	0%	1 day	Thu 8/16/12	Thu 8/16/12					
329	Install Microwave Radios	0%	3 days	Fri 8/17/12	Tue 8/21/12					
330	Bally	0%	4 days	Thu 6/21/12	Tue 6/26/12					
331	Deliver Microwave Radios	0%	1 day	Thu 6/21/12	Thu 6/21/12					
332	Install Microwave Radios	0%	3 days	Fri 6/22/12	Tue 6/26/12					
333	North Heidelberg	0%	4 days	Fri 6/8/12	Wed 6/13/12					
334	Deliver Microwave Radios	0%	1 day	Fri 6/8/12	Fri 6/8/12					
335	Install Microwave Radios	0%	3 days	Mon 6/11/12	Wed 6/13/12					
336	West Penn	0%	4 days	Thu 8/23/12	Tue 8/28/12					
337	Deliver Microwave Radios	0%	1 day	Thu 8/23/12	Thu 8/23/12					
338	Install Microwave Radios	0%	3 days	Fri 8/24/12	Tue 8/28/12					
339	Bethel	0%	4 days	Wed 8/29/12	Mon 9/3/12					
340	Deliver Microwave Radios	0%	1 day	Wed 8/29/12	Wed 8/29/12					
341	Install Microwave Radios	0%	3 days	Thu 8/30/12	Mon 9/3/12					
342	Longswamp	0%	4 days	Mon 9/17/12	Thu 9/20/12					
343	Deliver Microwave Radios	0%	1 day	Mon 9/17/12	Mon 9/17/12					
344	Install Microwave Radios	0%	3 days	Tue 9/18/12	Thu 9/20/12					
345	Blue Mountain	0%	4 days	Thu 9/6/12	Tue 9/11/12					
346	Deliver Microwave Radios	0%	1 day	Thu 9/6/12	Thu 9/6/12					
347	Install Microwave Radios	0%	3 days	Fri 9/7/12	Tue 9/11/12					
348	BCCC to Courthouse	0%	2 days	Fri 5/4/12	Mon 5/7/12					
349	Optimize Path	0%	1 day	Fri 5/4/12	Fri 5/4/12					
350	Test Path Reliability	0%	1 day	Mon 5/7/12	Mon 5/7/12					
351	<i>BCCC to Courthouse Path Complete</i>	0%	0 days	Mon 5/7/12	Mon 5/7/12					
352	Courthouse to City Hall (Via Services)	0%	3 days	Wed 5/9/12	Fri 5/11/12					
353	Optimize Path	0%	2 days	Wed 5/9/12	Thu 5/10/12					
354	Test Path	0%	1 day	Fri 5/11/12	Fri 5/11/12					
355	<i>Courthouse to City Hall Path Complete</i>	0%	0 days	Fri 5/11/12	Fri 5/11/12					
356	Courthouse to North Campus	0%	2 days	Thu 5/17/12	Fri 5/18/12					
357	Optimize Path	0%	1 day	Thu 5/17/12	Thu 5/17/12					
358	Test Path	0%	1 day	Fri 5/18/12	Fri 5/18/12					

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ID	Task Name	% Cmplt	Duration	Working Start	Working Finish	2011				
						Oct	Nov	Dec	Jan	Feb
359	<i>Courthouse to North Campus Path Complete</i>	0%	0 days	<i>Fri 5/18/12</i>	<i>Fri 5/18/12</i>					
360	City Hall to Mt. Penn II	0%	2 days	Wed 5/23/12	Thu 5/24/12					
361	Optimize Path	0%	1 day	Wed 5/23/12	Wed 5/23/12					
362	Test Path	0%	1 day	Thu 5/24/12	Thu 5/24/12					
363	<i>City Hall to Mt. Penn II Path Complete</i>	0%	0 days	<i>Thu 5/24/12</i>	<i>Thu 5/24/12</i>					
364	BCCC to Ontelaunee	0%	2 days	Thu 6/7/12	Fri 6/8/12					
365	Optimize Path	0%	1 day	Thu 6/7/12	Thu 6/7/12					
366	Test Path	0%	1 day	Fri 6/8/12	Fri 6/8/12					
367	<i>BCCC to Ontelaunee Path Complete</i>	0%	0 days	<i>Fri 6/8/12</i>	<i>Fri 6/8/12</i>					
368	Kutztown to Albany	0%	2 days	Wed 10/3/12	Thu 10/4/12					
369	Optimize Path	0%	1 day	Wed 10/3/12	Wed 10/3/12					
370	Test Path	0%	1 day	Thu 10/4/12	Thu 10/4/12					
371	<i>Kutztown to Albany Path Complete</i>	0%	0 days	<i>Thu 10/4/12</i>	<i>Thu 10/4/12</i>					
372	Ontelaunee to Centre	0%	2 days	Fri 6/15/12	Mon 6/18/12					
373	Optimize Path	0%	1 day	Fri 6/15/12	Fri 6/15/12					
374	Test Path	0%	1 day	Mon 6/18/12	Mon 6/18/12					
375	<i>Ontelaunee to Centre Path Complete</i>	0%	0 days	<i>Mon 6/18/12</i>	<i>Mon 6/18/12</i>					
376	Albany to Hamburg	0%	2 days	Mon 10/1/12	Tue 10/2/12					
377	Optimize Path	0%	1 day	Mon 10/1/12	Mon 10/1/12					
378	Test Path	0%	1 day	Tue 10/2/12	Tue 10/2/12					
379	<i>Albany to Hamburg Path Complete</i>	0%	0 days	<i>Tue 10/2/12</i>	<i>Tue 10/2/12</i>					
380	Centre to Hamburg	0%	2 days	Wed 6/13/12	Thu 6/14/12					
381	Optimize Path	0%	1 day	Wed 6/13/12	Wed 6/13/12					
382	Test Path	0%	1 day	Thu 6/14/12	Thu 6/14/12					
383	<i>Centre to Hamburg Path Complete</i>	0%	0 days	<i>Thu 6/14/12</i>	<i>Thu 6/14/12</i>					
384	Ontelaunee to Alsace	0%	2 days	Mon 6/25/12	Tue 6/26/12					
385	Optimize Path	0%	1 day	Mon 6/25/12	Mon 6/25/12					
386	Test Path	0%	1 day	Tue 6/26/12	Tue 6/26/12					
387	<i>Ontelaunee to Alsace Path Complete</i>	0%	0 days	<i>Tue 6/26/12</i>	<i>Tue 6/26/12</i>					
388	Mt. Penn II to Robeson	0%	2 days	Wed 6/6/12	Thu 6/7/12					
389	Optimize Path	0%	1 day	Wed 6/6/12	Wed 6/6/12					
390	Test Path	0%	1 day	Thu 6/7/12	Thu 6/7/12					
391	<i>Mt. Penn II to Robeson Path Complete</i>	0%	0 days	<i>Thu 6/7/12</i>	<i>Thu 6/7/12</i>					
392	Alsace to Earl	0%	2 days	Tue 6/19/12	Wed 6/20/12					
393	Optimize Path	0%	1 day	Tue 6/19/12	Tue 6/19/12					
394	Test Path	0%	1 day	Wed 6/20/12	Wed 6/20/12					

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ID	Task Name	% Cmplt	Duration	Working Start	Working Finish	2011				
						Oct	Nov	Dec	Jan	Feb
395	<i>Alsace to Earl Path Complete</i>	0%	0 days	Wed 6/20/12	Wed 6/20/12					
396	Robeson to Cumru	0%	2 days	Tue 8/14/12	Wed 8/15/12					
397	Optimize Path	0%	1 day	Tue 8/14/12	Tue 8/14/12					
398	Test Path	0%	1 day	Wed 8/15/12	Wed 8/15/12					
399	<i>Robeson to Cumru Path Complete</i>	0%	0 days	Wed 8/15/12	Wed 8/15/12					
400	Earl to Union	0%	2 days	Tue 9/4/12	Wed 9/5/12					
401	Optimize Path	0%	1 day	Tue 9/4/12	Tue 9/4/12					
402	Test Path	0%	1 day	Wed 9/5/12	Wed 9/5/12					
403	<i>Earl to Union Path Complete</i>	0%	0 days	Wed 9/5/12	Wed 9/5/12					
404	Cumru to Turnpike	0%	2 days	Wed 8/22/12	Thu 8/23/12					
405	Optimize Path	0%	1 day	Wed 8/22/12	Wed 8/22/12					
406	Test Path	0%	1 day	Thu 8/23/12	Thu 8/23/12					
407	<i>Cumru to Turnpike Path Complete</i>	0%	0 days	Thu 8/23/12	Thu 8/23/12					
408	Earl to Bally	0%	2 days	Wed 6/27/12	Thu 6/28/12					
409	Optimize Path	0%	1 day	Wed 6/27/12	Wed 6/27/12					
410	Test Path	0%	1 day	Thu 6/28/12	Thu 6/28/12					
411	<i>Earl to Bally Path Complete</i>	0%	0 days	Thu 6/28/12	Thu 6/28/12					
412	Union to Turnpike	0%	3 days	Thu 8/30/12	Mon 9/3/12					
413	Optimize Path	0%	2 days	Thu 8/30/12	Fri 8/31/12					
414	Test Path	0%	1 day	Mon 9/3/12	Mon 9/3/12					
415	<i>Union to Turnpike Path Complete</i>	0%	0 days	Mon 9/3/12	Mon 9/3/12					
416	North Campus to North Heidelberg	0%	2 days	Thu 6/14/12	Fri 6/15/12					
417	Optimize Path	0%	1 day	Thu 6/14/12	Thu 6/14/12					
418	Test Path	0%	1 day	Fri 6/15/12	Fri 6/15/12					
419	<i>North Campus to North Heidelberg Path Complete</i>	0%	0 days	Fri 6/15/12	Fri 6/15/12					
420	Kutztown to West Penn	0%	2 days	Wed 8/29/12	Thu 8/30/12					
421	Optimize Path	0%	1 day	Wed 8/29/12	Wed 8/29/12					
422	Test Path	0%	1 day	Thu 8/30/12	Thu 8/30/12					
423	<i>Kutztown to West Penn Path Complete</i>	0%	0 days	Thu 8/30/12	Thu 8/30/12					
424	North Heidelberg to Bethel	0%	2 days	Tue 9/4/12	Wed 9/5/12					
425	Optimize Path	0%	1 day	Tue 9/4/12	Tue 9/4/12					
426	Test Path	0%	1 day	Wed 9/5/12	Wed 9/5/12					
427	<i>North Heidelberg to Bethel Path Complete</i>	0%	0 days	Wed 9/5/12	Wed 9/5/12					
428	West Penn to Longswamp	0%	2 days	Fri 9/21/12	Mon 9/24/12					
429	Optimize Path	0%	1 day	Fri 9/21/12	Fri 9/21/12					
430	Test Path	0%	1 day	Mon 9/24/12	Mon 9/24/12					

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ID	Task Name	% Cmplt	Duration	Working Start	Working Finish	2011				
						Oct	Nov	Dec	Jan	Feb
431	<i>West Penn to Longswamp Path Complete</i>	0%	0 days	<i>Mon 9/24/12</i>	<i>Mon 9/24/12</i>					
432	Bethel to Blue Mountain	0%	3 days	Wed 9/12/12	Fri 9/14/12					
433	Optimize Path	0%	2 days	Wed 9/12/12	Thu 9/13/12					
434	Test Path	0%	1 day	Fri 9/14/12	Fri 9/14/12					
435	<i>Bethel to Blue Mountain Path Complete</i>	0%	0 days	<i>Fri 9/14/12</i>	<i>Fri 9/14/12</i>					
436	Bally to Longswamp	0%	3 days	Tue 9/25/12	Thu 9/27/12					
437	Optimize Path	0%	2 days	Tue 9/25/12	Wed 9/26/12					
438	Test Path	0%	1 day	Thu 9/27/12	Thu 9/27/12					
439	<i>Bally to Longswamp Path Complete</i>	0%	0 days	<i>Thu 9/27/12</i>	<i>Thu 9/27/12</i>					
440	Albany to Blue Mountain	0%	3 days	Wed 9/26/12	Fri 9/28/12					
441	Optimize Path	0%	2 days	Wed 9/26/12	Thu 9/27/12					
442	Test Path	0%	1 day	Fri 9/28/12	Fri 9/28/12					
443	<i>Albany to Blue Mountain Path Complete</i>	0%	0 days	<i>Fri 9/28/12</i>	<i>Fri 9/28/12</i>					
444	<i>Microwave Installation Complete</i>	0%	0 days	<i>Thu 10/4/12</i>	<i>Thu 10/4/12</i>					
445	FNE Subsystem	0%	191 days	Wed 2/29/12	Wed 11/21/12					
446	Antennae Installation	0%	144 days	Mon 4/2/12	Thu 10/18/12					
447	BCCC	0%	5 days	Mon 4/2/12	Fri 4/6/12					
448	Deliver Antennae, Transmission Lines & Materials	0%	1 day	Mon 4/2/12	Mon 4/2/12					
449	Install Antennae and Transmission Lines	0%	3 days	Tue 4/3/12	Thu 4/5/12					
450	Ground / Terminate Transmission Lines	0%	1 day	Fri 4/6/12	Fri 4/6/12					
451	Sweep Lines	0%	1 day	Fri 4/6/12	Fri 4/6/12					
452	<i>Antennae Installation Complete</i>	0%	0 days	<i>Fri 4/6/12</i>	<i>Fri 4/6/12</i>					
453	Courthouse	0%	10 days	Mon 5/21/12	Fri 6/1/12					
454	Deliver Antennae, Transmission Lines & Materials	0%	2 days	Mon 5/21/12	Tue 5/22/12					
455	Install Antennae and Transmission Lines	0%	6 days	Wed 5/23/12	Wed 5/30/12					
456	Ground / Terminate Transmission Lines	0%	2 days	Thu 5/31/12	Fri 6/1/12					
457	Sweep Lines	0%	2 days	Thu 5/31/12	Fri 6/1/12					
458	<i>Antennae Installation Complete</i>	0%	0 days	<i>Fri 6/1/12</i>	<i>Fri 6/1/12</i>					
459	North Campus	0%	5 days	Wed 4/18/12	Tue 4/24/12					
460	Deliver Antennae, Transmission Lines & Materials	0%	1 day	Wed 4/18/12	Wed 4/18/12					
461	Install Antennae and Transmission Lines	0%	3 days	Thu 4/19/12	Mon 4/23/12					
462	Ground / Terminate Transmission Lines	0%	1 day	Tue 4/24/12	Tue 4/24/12					
463	Sweep Lines	0%	1 day	Tue 4/24/12	Tue 4/24/12					
464	<i>Antennae Installation Complete</i>	0%	0 days	<i>Tue 4/24/12</i>	<i>Tue 4/24/12</i>					
465	Mt. Penn II	0%	12 days	Wed 4/25/12	Thu 5/10/12					
466	Deliver Antennae, Transmission Lines & Materials	0%	1 day	Wed 4/25/12	Wed 4/25/12					

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ID	Task Name	% Cmplt	Duration	Working Start	Working Finish	2011				
						Oct	Nov	Dec	Jan	Feb
467	Install Antennae and Transmission Lines	0%	8 days	Thu 4/26/12	Mon 5/7/12					
468	Ground / Terminate Transmission Lines	0%	3 days	Tue 5/8/12	Thu 5/10/12					
469	Sweep Lines	0%	3 days	Tue 5/8/12	Thu 5/10/12					
470	<i>Antennae Installation Complete</i>	<i>0%</i>	<i>0 days</i>	<i>Thu 5/10/12</i>	<i>Thu 5/10/12</i>					
471	Ontelaunee	0%	5 days	Wed 6/27/12	Tue 7/3/12					
472	Deliver Antennae, Transmission Lines & Materials	0%	1 day	Wed 6/27/12	Wed 6/27/12					
473	Install Antennae and Transmission Lines	0%	3 days	Thu 6/28/12	Mon 7/2/12					
474	Ground / Terminate Transmission Lines	0%	1 day	Tue 7/3/12	Tue 7/3/12					
475	Sweep Lines	0%	1 day	Tue 7/3/12	Tue 7/3/12					
476	<i>Antennae Installation Complete</i>	<i>0%</i>	<i>0 days</i>	<i>Tue 7/3/12</i>	<i>Tue 7/3/12</i>					
477	Kutztown	0%	5 days	Fri 8/3/12	Thu 8/9/12					
478	Deliver Antennae, Transmission Lines & Materials	0%	1 day	Fri 8/3/12	Fri 8/3/12					
479	Install Antennae and Transmission Lines	0%	3 days	Mon 8/6/12	Wed 8/8/12					
480	Ground / Terminate Transmission Lines	0%	1 day	Thu 8/9/12	Thu 8/9/12					
481	Sweep Lines	0%	1 day	Thu 8/9/12	Thu 8/9/12					
482	<i>Antennae Installation Complete</i>	<i>0%</i>	<i>0 days</i>	<i>Thu 8/9/12</i>	<i>Thu 8/9/12</i>					
483	Albany	0%	10 days	Fri 10/5/12	Thu 10/18/12					
484	Deliver Antennae, Transmission Lines & Materials	0%	1 day	Fri 10/5/12	Fri 10/5/12					
485	Install Antennae and Transmission Lines	0%	7 days	Mon 10/8/12	Tue 10/16/12					
486	Ground / Terminate Transmission Lines	0%	2 days	Wed 10/17/12	Thu 10/18/12					
487	Sweep Lines	0%	2 days	Wed 10/17/12	Thu 10/18/12					
488	<i>Antennae Installation Complete</i>	<i>0%</i>	<i>0 days</i>	<i>Thu 10/18/12</i>	<i>Thu 10/18/12</i>					
489	Centre	0%	4 days	Fri 5/11/12	Wed 5/16/12					
490	Deliver Antennae, Transmission Lines & Materials	0%	1 day	Fri 5/11/12	Fri 5/11/12					
491	Install Antennae and Transmission Lines	0%	2 days	Mon 5/14/12	Tue 5/15/12					
492	Ground / Terminate Transmission Lines	0%	1 day	Wed 5/16/12	Wed 5/16/12					
493	Sweep Lines	0%	1 day	Wed 5/16/12	Wed 5/16/12					
494	<i>Antennae Installation Complete</i>	<i>0%</i>	<i>0 days</i>	<i>Wed 5/16/12</i>	<i>Wed 5/16/12</i>					
495	Hamburg	0%	7 days	Tue 5/1/12	Wed 5/9/12					
496	Deliver Antennae, Transmission Lines & Materials	0%	1 day	Tue 5/1/12	Tue 5/1/12					
497	Install Antennae and Transmission Lines	0%	4 days	Wed 5/2/12	Mon 5/7/12					
498	Ground / Terminate Transmission Lines	0%	2 days	Tue 5/8/12	Wed 5/9/12					
499	Sweep Lines	0%	2 days	Tue 5/8/12	Wed 5/9/12					
500	<i>Antennae Installation Complete</i>	<i>0%</i>	<i>0 days</i>	<i>Wed 5/9/12</i>	<i>Wed 5/9/12</i>					
501	Alsace	0%	7 days	Thu 5/10/12	Fri 5/18/12					
502	Deliver Antennae, Transmission Lines & Materials	0%	1 day	Thu 5/10/12	Thu 5/10/12					

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ID	Task Name	% Cmplt	Duration	Working Start	Working Finish	2011				
						Oct	Nov	Dec	Jan	Feb
503	Install Antennae and Transmission Lines	0%	4 days	Fri 5/11/12	Wed 5/16/12					
504	Ground / Terminate Transmission Lines	0%	2 days	Thu 5/17/12	Fri 5/18/12					
505	Sweep Lines	0%	2 days	Thu 5/17/12	Fri 5/18/12					
506	<i>Antennae Installation Complete</i>	<i>0%</i>	<i>0 days</i>	<i>Fri 5/18/12</i>	<i>Fri 5/18/12</i>					
507	Robeson	0%	5 days	Fri 6/8/12	Thu 6/14/12					
508	Deliver Antennae, Transmission Lines & Materials	0%	1 day	Fri 6/8/12	Fri 6/8/12					
509	Install Antennae and Transmission Lines	0%	3 days	Mon 6/11/12	Wed 6/13/12					
510	Ground / Terminate Transmission Lines	0%	1 day	Thu 6/14/12	Thu 6/14/12					
511	Sweep Lines	0%	1 day	Thu 6/14/12	Thu 6/14/12					
512	<i>Antennae Installation Complete</i>	<i>0%</i>	<i>0 days</i>	<i>Thu 6/14/12</i>	<i>Thu 6/14/12</i>					
513	Earl	0%	10 days	Mon 5/21/12	Fri 6/1/12					
514	Deliver Antennae, Transmission Lines & Materials	0%	1 day	Mon 5/21/12	Mon 5/21/12					
515	Install Antennae and Transmission Lines	0%	7 days	Tue 5/22/12	Wed 5/30/12					
516	Ground / Terminate Transmission Lines	0%	2 days	Thu 5/31/12	Fri 6/1/12					
517	Sweep Lines	0%	2 days	Thu 5/31/12	Fri 6/1/12					
518	<i>Antennae Installation Complete</i>	<i>0%</i>	<i>0 days</i>	<i>Fri 6/1/12</i>	<i>Fri 6/1/12</i>					
519	Cumru	0%	12 days	Fri 8/24/12	Mon 9/10/12					
520	Deliver Antennae, Transmission Lines & Materials	0%	1 day	Fri 8/24/12	Fri 8/24/12					
521	Install Antennae and Transmission Lines	0%	8 days	Mon 8/27/12	Wed 9/5/12					
522	Ground / Terminate Transmission Lines	0%	3 days	Thu 9/6/12	Mon 9/10/12					
523	Sweep Lines	0%	3 days	Thu 9/6/12	Mon 9/10/12					
524	<i>Antennae Installation Complete</i>	<i>0%</i>	<i>0 days</i>	<i>Mon 9/10/12</i>	<i>Mon 9/10/12</i>					
525	Union	0%	9 days	Thu 9/6/12	Tue 9/18/12					
526	Deliver Antennae, Transmission Lines & Materials	0%	1 day	Thu 9/6/12	Thu 9/6/12					
527	Install Antennae and Transmission Lines	0%	6 days	Fri 9/7/12	Fri 9/14/12					
528	Ground / Terminate Transmission Lines	0%	2 days	Mon 9/17/12	Tue 9/18/12					
529	Sweep Lines	0%	2 days	Mon 9/17/12	Tue 9/18/12					
530	<i>Antennae Installation Complete</i>	<i>0%</i>	<i>0 days</i>	<i>Tue 9/18/12</i>	<i>Tue 9/18/12</i>					
531	Turnpike	0%	7 days	Wed 7/25/12	Thu 8/2/12					
532	Deliver Antennae, Transmission Lines & Materials	0%	1 day	Wed 7/25/12	Wed 7/25/12					
533	Install Antennae and Transmission Lines	0%	4 days	Thu 7/26/12	Tue 7/31/12					
534	Ground / Terminate Transmission Lines	0%	2 days	Wed 8/1/12	Thu 8/2/12					
535	Sweep Lines	0%	2 days	Wed 8/1/12	Thu 8/2/12					
536	<i>Antennae Installation Complete</i>	<i>0%</i>	<i>0 days</i>	<i>Thu 8/2/12</i>	<i>Thu 8/2/12</i>					
537	Bally	0%	12 days	Wed 5/23/12	Thu 6/7/12					
538	Deliver Antennae, Transmission Lines & Materials	0%	1 day	Wed 5/23/12	Wed 5/23/12					

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ID	Task Name	% Cmplt	Duration	Working Start	Working Finish	2011				
						Oct	Nov	Dec	Jan	Feb
539	Install Antennae and Transmission Lines	0%	8 days	Thu 5/24/12	Mon 6/4/12					
540	Ground / Terminate Transmission Lines	0%	3 days	Tue 6/5/12	Thu 6/7/12					
541	Sweep Lines	0%	3 days	Tue 6/5/12	Thu 6/7/12					
542	<i>Antennae Installation Complete</i>	<i>0%</i>	<i>0 days</i>	<i>Thu 6/7/12</i>	<i>Thu 6/7/12</i>					
543	North Heidelberg	0%	7 days	Mon 6/18/12	Tue 6/26/12					
544	Deliver Antennae, Transmission Lines & Materials	0%	1 day	Mon 6/18/12	Mon 6/18/12					
545	Install Antennae and Transmission Lines	0%	4 days	Tue 6/19/12	Fri 6/22/12					
546	Ground / Terminate Transmission Lines	0%	2 days	Mon 6/25/12	Tue 6/26/12					
547	Sweep Lines	0%	2 days	Mon 6/25/12	Tue 6/26/12					
548	<i>Antennae Installation Complete</i>	<i>0%</i>	<i>0 days</i>	<i>Tue 6/26/12</i>	<i>Tue 6/26/12</i>					
549	Longswamp	0%	12 days	Fri 9/28/12	Mon 10/15/12					
550	Deliver Antennae, Transmission Lines & Materials	0%	1 day	Fri 9/28/12	Fri 9/28/12					
551	Install Antennae and Transmission Lines	0%	8 days	Mon 10/1/12	Wed 10/10/12					
552	Ground / Terminate Transmission Lines	0%	3 days	Thu 10/11/12	Mon 10/15/12					
553	Sweep Lines	0%	3 days	Thu 10/11/12	Mon 10/15/12					
554	<i>Antennae Installation Complete</i>	<i>0%</i>	<i>0 days</i>	<i>Mon 10/15/12</i>	<i>Mon 10/15/12</i>					
555	Bethel	0%	12 days	Mon 9/17/12	Tue 10/2/12					
556	Deliver Antennae, Transmission Lines & Materials	0%	1 day	Mon 9/17/12	Mon 9/17/12					
557	Install Antennae and Transmission Lines	0%	8 days	Tue 9/18/12	Thu 9/27/12					
558	Ground / Terminate Transmission Lines	0%	3 days	Fri 9/28/12	Tue 10/2/12					
559	Sweep Lines	0%	3 days	Fri 9/28/12	Tue 10/2/12					
560	<i>Antennae Installation Complete</i>	<i>0%</i>	<i>0 days</i>	<i>Tue 10/2/12</i>	<i>Tue 10/2/12</i>					
561	West Penn	0%	9 days	Mon 6/4/12	Thu 6/14/12					
562	Deliver Antennae, Transmission Lines & Materials	0%	1 day	Mon 6/4/12	Mon 6/4/12					
563	Install Antennae and Transmission Lines	0%	6 days	Tue 6/5/12	Tue 6/12/12					
564	Ground / Terminate Transmission Lines	0%	2 days	Wed 6/13/12	Thu 6/14/12					
565	Sweep Lines	0%	2 days	Wed 6/13/12	Thu 6/14/12					
566	<i>Antennae Installation Complete</i>	<i>0%</i>	<i>0 days</i>	<i>Thu 6/14/12</i>	<i>Thu 6/14/12</i>					
567	Blue Mountain	0%	7 days	Fri 6/15/12	Mon 6/25/12					
568	Deliver Antennae, Transmission Lines & Materials	0%	1 day	Fri 6/15/12	Fri 6/15/12					
569	Install Antennae and Transmission Lines	0%	4 days	Mon 6/18/12	Thu 6/21/12					
570	Ground / Terminate Transmission Lines	0%	2 days	Fri 6/22/12	Mon 6/25/12					
571	Sweep Lines	0%	2 days	Fri 6/22/12	Mon 6/25/12					
572	<i>Antennae Installation Complete</i>	<i>0%</i>	<i>0 days</i>	<i>Mon 6/25/12</i>	<i>Mon 6/25/12</i>					
573	FNE Installation	0%	123 days	Mon 6/4/12	Wed 11/21/12					
574	BCCC	0%	25 days	Mon 6/4/12	Fri 7/6/12					

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ID	Task Name	% Cmplt	Duration	Working Start	Working Finish	2011				
						Oct	Nov	Dec	Jan	Feb
575	Deliver Equipment	0%	2 days	Mon 6/4/12	Tue 6/5/12					
576	Install Equipment	0%	6 days	Wed 6/6/12	Wed 6/13/12					
577	Optimize / Integrate FNE	0%	17 days	Thu 6/14/12	Fri 7/6/12					
578	<i>FNE Installation Complete</i>	<i>0%</i>	<i>0 days</i>	<i>Fri 7/6/12</i>	<i>Fri 7/6/12</i>					
579	<i>Invoice Milestone: FNE Installation</i>	<i>0%</i>	<i>0 days</i>	<i>Fri 7/6/12</i>	<i>Fri 7/6/12</i>					
580	Courthouse	0%	25 days	Mon 6/4/12	Fri 7/6/12					
581	Deliver Equipment	0%	3 days	Mon 6/4/12	Wed 6/6/12					
582	Install Equipment	0%	6 days	Thu 6/7/12	Thu 6/14/12					
583	Optimize / Integrate FNE	0%	16 days	Fri 6/15/12	Fri 7/6/12					
584	<i>FNE Installation Complete</i>	<i>0%</i>	<i>0 days</i>	<i>Fri 7/6/12</i>	<i>Fri 7/6/12</i>					
585	<i>Invoice Milestone: FNE Installation</i>	<i>0%</i>	<i>0 days</i>	<i>Fri 7/6/12</i>	<i>Fri 7/6/12</i>					
586	North Campus	0%	26 days	Mon 6/18/12	Mon 7/23/12					
587	Deliver Equipment	0%	1 day	Mon 6/18/12	Mon 6/18/12					
588	Install Equipment	0%	7 days	Tue 6/19/12	Wed 6/27/12					
589	Optimize / Integrate FNE	0%	11 days	Mon 7/9/12	Mon 7/23/12					
590	<i>FNE Installation Complete</i>	<i>0%</i>	<i>0 days</i>	<i>Mon 7/23/12</i>	<i>Mon 7/23/12</i>					
591	<i>Invoice Milestone: FNE Installation</i>	<i>0%</i>	<i>0 days</i>	<i>Mon 7/23/12</i>	<i>Mon 7/23/12</i>					
592	Mt. Penn II	0%	26 days	Fri 6/15/12	Fri 7/20/12					
593	Deliver Equipment	0%	1 day	Fri 6/15/12	Fri 6/15/12					
594	Install Equipment	0%	7 days	Mon 6/18/12	Tue 6/26/12					
595	Optimize / Integrate FNE	0%	10 days	Mon 7/9/12	Fri 7/20/12					
596	<i>FNE Installation Complete</i>	<i>0%</i>	<i>0 days</i>	<i>Fri 7/20/12</i>	<i>Fri 7/20/12</i>					
597	<i>Invoice Milestone: FNE Installation</i>	<i>0%</i>	<i>0 days</i>	<i>Fri 7/20/12</i>	<i>Fri 7/20/12</i>					
598	Ontelaunee	0%	22 days	Tue 7/17/12	Wed 8/15/12					
599	Deliver Equipment	0%	1 day	Tue 7/17/12	Tue 7/17/12					
600	Install Equipment	0%	3 days	Wed 7/18/12	Fri 7/20/12					
601	Optimize / Integrate FNE	0%	3 days	Mon 8/13/12	Wed 8/15/12					
602	<i>FNE Installation Complete</i>	<i>0%</i>	<i>0 days</i>	<i>Wed 8/15/12</i>	<i>Wed 8/15/12</i>					
603	<i>Invoice Milestone: FNE Installation</i>	<i>0%</i>	<i>0 days</i>	<i>Wed 8/15/12</i>	<i>Wed 8/15/12</i>					
604	Hamburg	0%	27 days	Thu 7/5/12	Fri 8/10/12					
605	Deliver Equipment	0%	1 day	Thu 7/5/12	Thu 7/5/12					
606	Install Equipment	0%	7 days	Fri 7/6/12	Mon 7/16/12					
607	Optimize / Integrate FNE	0%	11 days	Fri 7/27/12	Fri 8/10/12					
608	<i>FNE Installation Complete</i>	<i>0%</i>	<i>0 days</i>	<i>Fri 8/10/12</i>	<i>Fri 8/10/12</i>					
609	<i>Invoice Milestone: FNE Installation</i>	<i>0%</i>	<i>0 days</i>	<i>Fri 8/10/12</i>	<i>Fri 8/10/12</i>					
610	Albany	0%	22 days	Tue 10/23/12	Wed 11/21/12					

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ID	Task Name	% Cmplt	Duration	Working Start	Working Finish	2011				
						Oct	Nov	Dec	Jan	Feb
611	Deliver Equipment	0%	1 day	Tue 10/23/12	Tue 10/23/12					
612	Install Equipment	0%	9 days	Wed 10/24/12	Mon 11/5/12					
613	Optimize / Integrate FNE	0%	12 days	Tue 11/6/12	Wed 11/21/12					
614	<i>FNE Installation Complete</i>	0%	0 days	Wed 11/21/12	Wed 11/21/12					
615	<i>Invoice Milestone: FNE Installation</i>	0%	0 days	Wed 11/21/12	Wed 11/21/12					
616	Kutztown	0%	45 days	Fri 8/10/12	Thu 10/11/12					
617	Deliver Equipment	0%	1 day	Fri 8/10/12	Fri 8/10/12					
618	Install Equipment	0%	3 days	Mon 8/13/12	Wed 8/15/12					
619	Optimize / Integrate FNE	0%	5 days	Fri 10/5/12	Thu 10/11/12					
620	<i>FNE Installation Complete</i>	0%	0 days	Thu 10/11/12	Thu 10/11/12					
621	<i>Invoice Milestone: FNE Installation</i>	0%	0 days	Thu 10/11/12	Thu 10/11/12					
622	Alsace	0%	21 days	Mon 7/23/12	Mon 8/20/12					
623	Deliver Equipment	0%	1 day	Mon 7/23/12	Mon 7/23/12					
624	Install Equipment	0%	4 days	Tue 7/24/12	Fri 7/27/12					
625	Optimize / Integrate FNE	0%	3 days	Thu 8/16/12	Mon 8/20/12					
626	<i>FNE Installation Complete</i>	0%	0 days	Mon 8/20/12	Mon 8/20/12					
627	<i>Invoice Milestone: FNE Installation</i>	0%	0 days	Mon 8/20/12	Mon 8/20/12					
628	Robeson	0%	21 days	Wed 6/27/12	Wed 7/25/12					
629	Deliver Equipment	0%	1 day	Wed 6/27/12	Wed 6/27/12					
630	Install Equipment	0%	3 days	Thu 6/28/12	Mon 7/2/12					
631	Optimize / Integrate FNE	0%	3 days	Mon 7/23/12	Wed 7/25/12					
632	<i>FNE Installation Complete</i>	0%	0 days	Wed 7/25/12	Wed 7/25/12					
633	<i>Invoice Milestone: FNE Installation</i>	0%	0 days	Wed 7/25/12	Wed 7/25/12					
634	Earl	0%	27 days	Tue 7/3/12	Wed 8/8/12					
635	Deliver Equipment	0%	1 day	Tue 7/3/12	Tue 7/3/12					
636	Install Equipment	0%	7 days	Wed 7/4/12	Thu 7/12/12					
637	Optimize / Integrate FNE	0%	10 days	Thu 7/26/12	Wed 8/8/12					
638	<i>FNE Installation Complete</i>	0%	0 days	Wed 8/8/12	Wed 8/8/12					
639	<i>Invoice Milestone: FNE Installation</i>	0%	0 days	Wed 8/8/12	Wed 8/8/12					
640	Cumru	0%	14 days	Wed 9/12/12	Mon 10/1/12					
641	Deliver Equipment	0%	1 day	Wed 9/12/12	Wed 9/12/12					
642	Install Equipment	0%	7 days	Thu 9/13/12	Fri 9/21/12					
643	Optimize / Integrate FNE	0%	6 days	Mon 9/24/12	Mon 10/1/12					
644	<i>FNE Installation Complete</i>	0%	0 days	Mon 10/1/12	Mon 10/1/12					
645	<i>Invoice Milestone: FNE Installation</i>	0%	0 days	Mon 10/1/12	Mon 10/1/12					
646	Union	0%	18 days	Mon 9/24/12	Wed 10/17/12					

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ID	Task Name	% Cmplt	Duration	Working Start	Working Finish	2011				
						Oct	Nov	Dec	Jan	Feb
647	Deliver Equipment	0%	1 day	Mon 9/24/12	Mon 9/24/12					
648	Install Equipment	0%	7 days	Tue 9/25/12	Wed 10/3/12					
649	Optimize / Integrate FNE	0%	10 days	Thu 10/4/12	Wed 10/17/12					
650	<i>FNE Installation Complete</i>	0%	0 days	Wed 10/17/12	Wed 10/17/12					
651	<i>Invoice Milestone: FNE Installation</i>	0%	0 days	Wed 10/17/12	Wed 10/17/12					
652	Turnpike	0%	10 days	Tue 9/4/12	Mon 9/17/12					
653	Deliver Equipment	0%	1 day	Tue 9/4/12	Tue 9/4/12					
654	Install Equipment	0%	5 days	Wed 9/5/12	Tue 9/11/12					
655	Optimize / Integrate FNE	0%	4 days	Wed 9/12/12	Mon 9/17/12					
656	<i>FNE Installation Complete</i>	0%	0 days	Mon 9/17/12	Mon 9/17/12					
657	<i>Invoice Milestone: FNE Installation</i>	0%	0 days	Mon 9/17/12	Mon 9/17/12					
658	Bally	0%	25 days	Fri 7/13/12	Thu 8/16/12					
659	Deliver Equipment	0%	1 day	Fri 7/13/12	Fri 7/13/12					
660	Install Equipment	0%	7 days	Mon 7/16/12	Tue 7/24/12					
661	Optimize / Integrate FNE	0%	6 days	Thu 8/9/12	Thu 8/16/12					
662	<i>FNE Installation Complete</i>	0%	0 days	Thu 8/16/12	Thu 8/16/12					
663	<i>Invoice Milestone: FNE Installation</i>	0%	0 days	Thu 8/16/12	Thu 8/16/12					
664	North Heidelberg	0%	21 days	Thu 6/28/12	Thu 7/26/12					
665	Deliver Equipment	0%	1 day	Thu 6/28/12	Thu 6/28/12					
666	Install Equipment	0%	4 days	Fri 6/29/12	Wed 7/4/12					
667	Optimize / Integrate FNE	0%	3 days	Tue 7/24/12	Thu 7/26/12					
668	<i>FNE Installation Complete</i>	0%	0 days	Thu 7/26/12	Thu 7/26/12					
669	<i>Invoice Milestone: FNE Installation</i>	0%	0 days	Thu 7/26/12	Thu 7/26/12					
670	Longswamp	0%	14 days	Tue 10/16/12	Fri 11/2/12					
671	Deliver Equipment	0%	1 day	Tue 10/16/12	Tue 10/16/12					
672	Install Equipment	0%	7 days	Wed 10/17/12	Thu 10/25/12					
673	Optimize / Integrate FNE	0%	6 days	Fri 10/26/12	Fri 11/2/12					
674	<i>FNE Installation Complete</i>	0%	0 days	Fri 11/2/12	Fri 11/2/12					
675	<i>Invoice Milestone: FNE Installation</i>	0%	0 days	Fri 11/2/12	Fri 11/2/12					
676	Bethel	0%	15 days	Thu 10/4/12	Wed 10/24/12					
677	Deliver Equipment	0%	1 day	Thu 10/4/12	Thu 10/4/12					
678	Install Equipment	0%	6 days	Fri 10/5/12	Fri 10/12/12					
679	Optimize / Integrate FNE	0%	5 days	Thu 10/18/12	Wed 10/24/12					
680	<i>FNE Installation Complete</i>	0%	0 days	Wed 10/24/12	Wed 10/24/12					
681	<i>Invoice Milestone: FNE Installation</i>	0%	0 days	Wed 10/24/12	Wed 10/24/12					
682	West Penn	0%	62 days	Wed 7/25/12	Thu 10/18/12					

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ID	Task Name	% Cmplt	Duration	Working Start	Working Finish	2011				
						Oct	Nov	Dec	Jan	Feb
683	Deliver Equipment	0%	1 day	Wed 7/25/12	Wed 7/25/12					
684	Install Equipment	0%	6 days	Thu 7/26/12	Thu 8/2/12					
685	Optimize / Integrate FNE	0%	5 days	Fri 10/12/12	Thu 10/18/12					
686	<i>FNE Installation Complete</i>	<i>0%</i>	<i>0 days</i>	<i>Thu 10/18/12</i>	<i>Thu 10/18/12</i>					
687	<i>Invoice Milestone: FNE Installation</i>	<i>0%</i>	<i>0 days</i>	<i>Thu 10/18/12</i>	<i>Thu 10/18/12</i>					
688	Blue Mountain	0%	12 days	Mon 10/15/12	Tue 10/30/12					
689	Deliver Equipment	0%	1 day	Mon 10/15/12	Mon 10/15/12					
690	Install Equipment	0%	5 days	Tue 10/16/12	Mon 10/22/12					
691	Optimize / Integrate FNE	0%	4 days	Thu 10/25/12	Tue 10/30/12					
692	<i>FNE Installation Complete</i>	<i>0%</i>	<i>0 days</i>	<i>Tue 10/30/12</i>	<i>Tue 10/30/12</i>					
693	<i>Invoice Milestone: FNE Installation</i>	<i>0%</i>	<i>0 days</i>	<i>Tue 10/30/12</i>	<i>Tue 10/30/12</i>					
694	<i>FNE Installation Complete</i>	<i>0%</i>	<i>0 days</i>	<i>Wed 11/21/12</i>	<i>Wed 11/21/12</i>					
695	Dispatch Installation	0%	161 days	Wed 2/29/12	Wed 10/10/12					
696	Courthouse	0%	98 days	Wed 3/21/12	Fri 8/3/12					
697	Install Furniture	0%	3 days	Wed 3/21/12	Fri 3/23/12					
698	Deliver Equipment	0%	2 days	Mon 7/9/12	Tue 7/10/12					
699	Install Equipment	0%	6 days	Wed 7/11/12	Wed 7/18/12					
700	Optimize / Integrate	0%	12 days	Thu 7/19/12	Fri 8/3/12					
701	BCCC	0%	142 days	Wed 2/29/12	Thu 9/13/12					
702	Install Furniture	0%	15 days	Wed 2/29/12	Tue 3/20/12					
703	Deliver Equipment	0%	2 days	Thu 7/19/12	Fri 7/20/12					
704	Install Equipment	0%	13 days	Mon 7/23/12	Wed 8/8/12					
705	Optimize / Integrate	0%	26 days	Thu 8/9/12	Thu 9/13/12					
706	City Hall	0%	19 days	Fri 9/14/12	Wed 10/10/12					
707	Deliver Equipment	0%	1 day	Fri 9/14/12	Fri 9/14/12					
708	Install Equipment	0%	6 days	Mon 9/17/12	Mon 9/24/12					
709	Optimize / Integrate	0%	12 days	Tue 9/25/12	Wed 10/10/12					
710	<i>Dispatch Installation Complete</i>	<i>0%</i>	<i>0 days</i>	<i>Wed 10/10/12</i>	<i>Wed 10/10/12</i>					
711	<i>Invoice Milestone: Dispatch Installation</i>	<i>0%</i>	<i>0 days</i>	<i>Wed 10/10/12</i>	<i>Wed 10/10/12</i>					
712	<i>Microwave, FNE & Dispatch Installation Complete</i>	<i>0%</i>	<i>0 days</i>	<i>Wed 11/21/12</i>	<i>Wed 11/21/12</i>					
713	System Optimization	0%	76 days	Fri 10/5/12	Fri 1/18/13					
714	Microwave System Testing	0%	10 days	Fri 10/5/12	Thu 10/18/12					
715	Microwave Ring / Link Verification	0%	10 days	Fri 10/19/12	Thu 11/1/12					
716	System Optimization	0%	42 days	Thu 11/22/12	Fri 1/18/13					
717	<i>System Optimization Complete</i>	<i>0%</i>	<i>0 days</i>	<i>Fri 1/18/13</i>	<i>Fri 1/18/13</i>					
718	System Acceptance Testing	0%	75 days	Mon 11/26/12	Fri 3/8/13					

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						Oct	Nov	Dec	Jan	Feb
719	R-56 Audits	0%	40 days	Mon 11/26/12	Fri 1/18/13					
720	Perform R-56 Audits	0%	10 days	Mon 11/26/12	Fri 12/7/12					
721	Generate R-56 Audit Report / Punch List	0%	10 days	Mon 12/10/12	Fri 12/21/12					
722	Punch List Resolution	0%	20 days	Mon 12/24/12	Fri 1/18/13					
723	<i>R-56 Audits Complete</i>	0%	0 days	Fri 1/18/13	Fri 1/18/13					
724	System Functional Testing	0%	20 days	Mon 1/21/13	Fri 2/15/13					
725	Perform System Acceptance Test Plan	0%	10 days	Mon 1/21/13	Fri 2/1/13					
726	Document Test Results / Punch List	0%	5 days	Mon 2/4/13	Fri 2/8/13					
727	Punch List Resolution	0%	5 days	Mon 2/11/13	Fri 2/15/13					
728	<i>System Functional Testing Complete</i>	0%	0 days	Fri 2/15/13	Fri 2/15/13					
729	700 MHz Coverage Testing	0%	75 days	Mon 11/26/12	Fri 3/8/13					
730	Preparation	0%	50 days	Mon 11/26/12	Fri 2/1/13					
731	Generate CATP Procedures	0%	5 days	Mon 11/26/12	Fri 11/30/12					
732	Generate Grid Maps / Files	0%	15 days	Mon 12/3/12	Fri 12/21/12					
733	Configure Test Sets	0%	10 days	Mon 1/21/13	Fri 2/1/13					
734	Conduct CATP	0%	25 days	Mon 2/4/13	Fri 3/8/13					
735	Set-Up Test Vehicles	0%	5 days	Mon 2/4/13	Fri 2/8/13					
736	Train Test Teams	0%	5 days	Mon 2/4/13	Fri 2/8/13					
737	Perform Coverage Testing	0%	15 days	Mon 2/11/13	Fri 3/1/13					
738	Document Testing Results	0%	5 days	Mon 3/4/13	Fri 3/8/13					
739	<i>700 MHz Coverage Testing Complete</i>	0%	0 days	Fri 3/8/13	Fri 3/8/13					
740	<i>System Acceptance Testing Complete</i>	0%	0 days	Fri 3/8/13	Fri 3/8/13					
741	<i>Invoice Milestone: System Acceptance Testing</i>	0%	0 days	Fri 3/8/13	Fri 3/8/13					
742	Back-Up Paging	0%	37 days	Mon 1/21/13	Tue 3/12/13					
743	Take Down System	0%	1 day	Mon 1/21/13	Mon 1/21/13					
744	Courthouse	0%	2 days	Mon 1/21/13	Tue 1/22/13					
745	Install Back-Up Paging Console	0%	1 day	Mon 1/21/13	Mon 1/21/13					
746	Connect Console to Back-Up Paging BIM	0%	1 day	Tue 1/22/13	Tue 1/22/13					
747	Mt. Penn RMI	0%	2 days	Mon 1/21/13	Tue 1/22/13					
748	Reprogram Station for Narrowband	0%	1 day	Mon 1/21/13	Mon 1/21/13					
749	Replace Console with Community Repeater	0%	1 day	Tue 1/22/13	Tue 1/22/13					
750	New Tripoli	0%	1 day	Mon 1/21/13	Mon 1/21/13					
751	Reprogram Station for Narrowband	0%	1 day	Mon 1/21/13	Mon 1/21/13					
752	Mt. Penn II	0%	2 days	Wed 1/23/13	Thu 1/24/13					
753	Relocate Existing Station from Mt. Penn Site	0%	1 day	Wed 1/23/13	Wed 1/23/13					
754	Reprogram Station for Narrowband	0%	1 day	Thu 1/24/13	Thu 1/24/13					

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ID	Task Name	% Cmplt	Duration	Working Start	Working Finish	2011				
						Oct	Nov	Dec	Jan	Feb
755	Earl	0%	2 days	Wed 1/23/13	Thu 1/24/13					
756	Relocate Existing Station from Fancy Hill Garber Site	0%	1 day	Wed 1/23/13	Wed 1/23/13					
757	Reprogram Station for Narrowband	0%	1 day	Thu 1/24/13	Thu 1/24/13					
758	Longswamp	0%	2 days	Fri 1/25/13	Mon 1/28/13					
759	Relocate Existing Station from Topton Site	0%	1 day	Fri 1/25/13	Fri 1/25/13					
760	Reprogram Station for Narrowband	0%	1 day	Mon 1/28/13	Mon 1/28/13					
761	Centre	0%	2 days	Fri 1/25/13	Mon 1/28/13					
762	Relocate Existing Station from Existing Shelter	0%	1 day	Fri 1/25/13	Fri 1/25/13					
763	Reprogram Station for Narrowband	0%	1 day	Mon 1/28/13	Mon 1/28/13					
764	Bethel	0%	2 days	Tue 1/29/13	Wed 1/30/13					
765	Relocate Existing Station from Bethel Township Site	0%	1 day	Tue 1/29/13	Tue 1/29/13					
766	Reprogram Station for Narrowband	0%	1 day	Wed 1/30/13	Wed 1/30/13					
767	Cutover	0%	29 days	Thu 1/31/13	Tue 3/12/13					
768	Test System	0%	4 days	Thu 1/31/13	Tue 2/5/13					
769	Train / Refresh Dispatcher Using Gold Elite	0%	4 days	Wed 2/6/13	Mon 2/11/13					
770	Cutover Using Gold Elite	0%	1 day	Tue 2/12/13	Tue 2/12/13					
771	Narrowband Pagers	0%	20 days	Wed 2/13/13	Tue 3/12/13					
772	<i>Back-Up Paging Cutover Complete</i>	0%	0 days	Tue 2/12/13	Tue 2/12/13					
773	System Cutover	0%	97 days	Thu 11/22/12	Fri 4/5/13					
774	Planning	0%	27 days	Thu 11/22/12	Fri 12/28/12					
775	<i>Cutover Plan Approved by County</i>	0%	0 days	Fri 12/28/12	Fri 12/28/12					
776	Cutover	0%	20 days	Mon 3/11/13	Fri 4/5/13					
777	<i>System Cutover Complete</i>	0%	0 days	Fri 4/5/13	Fri 4/5/13					
778	Main Paging	0%	50 days	Wed 3/13/13	Tue 5/21/13					
779	Take System Down	0%	1 day	Mon 4/15/13	Mon 4/15/13					
780	West Penn	0%	2 days	Mon 4/15/13	Tue 4/16/13					
781	Relocate Existing Station from Existing Shelter	0%	1 day	Mon 4/15/13	Mon 4/15/13					
782	Reprogram Station for Narrowband	0%	1 day	Tue 4/16/13	Tue 4/16/13					
783	Longswamp	0%	2 days	Mon 4/15/13	Tue 4/16/13					
784	Relocate Existing Station from Topton Site	0%	1 day	Mon 4/15/13	Mon 4/15/13					
785	Reprogram Station for Narrowband	0%	1 day	Tue 4/16/13	Tue 4/16/13					
786	Bally	0%	2 days	Wed 4/17/13	Thu 4/18/13					
787	Relocate Existing Station from Bally Fire Site	0%	1 day	Wed 4/17/13	Wed 4/17/13					
788	Reprogram Station for Narrowband	0%	1 day	Thu 4/18/13	Thu 4/18/13					
789	Earl	0%	2 days	Wed 4/17/13	Thu 4/18/13					
790	Relocate Existing Station from Fancy Hill Garber Site	0%	1 day	Wed 4/17/13	Wed 4/17/13					

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ID	Task Name	% Cmplt	Duration	Working Start	Working Finish	2011				
						Oct	Nov	Dec	Jan	Feb
791	Reprogram Station for Narrowband	0%	1 day	Thu 4/18/13	Thu 4/18/13					
792	Mt. Penn II	0%	2 days	Fri 4/19/13	Mon 4/22/13					
793	Relocate Existing Station from Mt. Penn Site	0%	1 day	Fri 4/19/13	Fri 4/19/13					
794	Reprogram Station for Narrowband	0%	1 day	Mon 4/22/13	Mon 4/22/13					
795	Cumru	0%	2 days	Fri 4/19/13	Mon 4/22/13					
796	Relocate Existing Station from Gring's Hill Site	0%	1 day	Fri 4/19/13	Fri 4/19/13					
797	Reprogram Station for Narrowband	0%	1 day	Mon 4/22/13	Mon 4/22/13					
798	Kutztown	0%	2 days	Tue 4/23/13	Wed 4/24/13					
799	Relocate Existing Station from Kutztown Site	0%	1 day	Tue 4/23/13	Tue 4/23/13					
800	Reprogram Station for Narrowband	0%	1 day	Wed 4/24/13	Wed 4/24/13					
801	Hamburg	0%	2 days	Tue 4/23/13	Wed 4/24/13					
802	Relocate Existing Station from Kutztown Site	0%	1 day	Tue 4/23/13	Tue 4/23/13					
803	Reprogram Station for Narrowband	0%	1 day	Wed 4/24/13	Wed 4/24/13					
804	Centre	0%	2 days	Thu 4/25/13	Fri 4/26/13					
805	Relocate Existing Station from Existing Shelter	0%	1 day	Thu 4/25/13	Thu 4/25/13					
806	Reprogram Station for Narrowband	0%	1 day	Fri 4/26/13	Fri 4/26/13					
807	Bethel	0%	2 days	Thu 4/25/13	Fri 4/26/13					
808	Relocate Existing Station from Bethel Township Site	0%	1 day	Thu 4/25/13	Thu 4/25/13					
809	Reprogram Station for Narrowband	0%	1 day	Fri 4/26/13	Fri 4/26/13					
810	Cutover	0%	50 days	Wed 3/13/13	Tue 5/21/13					
811	Optimize System	0%	5 days	Mon 4/29/13	Fri 5/3/13					
812	Integrate CAD to MCC7500	0%	3 days	Mon 5/6/13	Wed 5/8/13					
813	Test System	0%	4 days	Thu 5/9/13	Tue 5/14/13					
814	Train / Refresh Dispatcher Using Gold Elite	0%	3 days	Wed 5/15/13	Fri 5/17/13					
815	Cutover Using MCC7500	0%	1 day	Mon 5/20/13	Mon 5/20/13					
816	Decommission Head-End	0%	1 day	Tue 5/21/13	Tue 5/21/13					
817	Narrowband Pagers	0%	40 days	Wed 3/13/13	Tue 5/7/13					
818	<i>Main Paging Cutover Complete</i>	0%	0 days	Tue 5/21/13	Tue 5/21/13					
819	DES	0%	441 days	Wed 8/24/11	Wed 5/1/13					
820	Take System Down	0%	1 day	Mon 4/15/13	Mon 4/15/13					
821	Reprogram Subscribers for Narrowband	0%	12 days	Mon 4/15/13	Tue 4/30/13					
822	Courthouse	0%	2 days	Mon 4/15/13	Tue 4/16/13					
823	Relocate DES Console to Main Equipment Room	0%	1 day	Mon 4/15/13	Mon 4/15/13					
824	Connect Console to CCGW	0%	1 day	Tue 4/16/13	Tue 4/16/13					
825	New Tripoli	0%	1 day	Mon 4/15/13	Mon 4/15/13					
826	Reprogram Station for Narrowband	0%	1 day	Mon 4/15/13	Mon 4/15/13					

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ID	Task Name	% Cmplt	Duration	Working Start	Working Finish	2011				
						Oct	Nov	Dec	Jan	Feb
827	Mt. Penn II	0%	2 days	Mon 4/15/13	Tue 4/16/13					
828	Relocate Existing Station from Mt. Penn Site	0%	1 day	Mon 4/15/13	Mon 4/15/13					
829	Reprogram Station for Narrowband	0%	1 day	Tue 4/16/13	Tue 4/16/13					
830	Earl	0%	2 days	Wed 4/17/13	Thu 4/18/13					
831	Relocate Existing Station from Fancy Hill Garber Site	0%	1 day	Wed 4/17/13	Wed 4/17/13					
832	Reprogram Station for Narrowband	0%	1 day	Thu 4/18/13	Thu 4/18/13					
833	Centre	0%	2 days	Wed 8/24/11	Thu 8/25/11					
834	Install New Station	0%	2 days	Wed 8/24/11	Thu 8/25/11					
835	Cutover	0%	9 days	Fri 4/19/13	Wed 5/1/13					
836	Test System	0%	3 days	Fri 4/19/13	Tue 4/23/13					
837	Train / Refresh Dispatcher Using MCC7500	0%	3 days	Wed 4/24/13	Fri 4/26/13					
838	Cutover Using MCC7500	0%	1 day	Wed 5/1/13	Wed 5/1/13					
839	<i>DES Cutover Complete</i>	0%	0 days	<i>Wed 5/1/13</i>	<i>Wed 5/1/13</i>					
840	System Manager	0%	1 day	Wed 11/21/12	Wed 11/21/12					
841	System Manager Starts	0%	1 day	Wed 11/21/12	Wed 11/21/12					
842	<i>Invoice Milestone: Sysem Manager 6 Months</i>	0%	0 days	<i>Wed 11/21/12</i>	<i>Wed 11/21/12</i>					
843	System Close Out	0%	52 days	Mon 3/11/13	Tue 5/21/13					
844	Resolve Open Punch List	0%	50 days	Mon 3/11/13	Fri 5/17/13					
845	Close-Out Documentation	0%	50 days	Mon 3/11/13	Fri 5/17/13					
846	Prepare / Review Customer Support Plan	0%	50 days	Mon 3/11/13	Fri 5/17/13					
847	<i>Customer Support Plan Approved by County</i>	0%	0 days	<i>Fri 5/17/13</i>	<i>Fri 5/17/13</i>					
848	<i>Final System Acceptance Complete</i>	0%	0 days	<i>Tue 5/21/13</i>	<i>Tue 5/21/13</i>					
849	<i>Invoice Milestone: Final FSA for FNE</i>	0%	0 days	<i>Tue 5/21/13</i>	<i>Tue 5/21/13</i>					
850	<i>Invoice Milestone: Final FSA for Subscribers</i>	0%	0 days	<i>Tue 5/21/13</i>	<i>Tue 5/21/13</i>					
851	<i>All Invoices Submiitted</i>	0%	0 days	<i>Tue 5/21/13</i>	<i>Tue 5/21/13</i>					
852	<i>Project Complete</i>	0%	0 days	<i>Tue 5/21/13</i>	<i>Tue 5/21/13</i>					

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